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Chen-Northern, inc
Anselmo Mine
Reclamation
Project, contract
no. 1, asbestos
removal and
abatement, Silver

Chen-Northern, Inc.

SILVER BOW COUNTY
BUTTE, MONTANA
AMR PROJECT NUMBER: MONTANA A/E 90-46-101
CHEN-NORTHERN PROJECT NO. 90-3133E

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FINAL REPORT

ANSELMO MINE RECLAMATION PROJECT
CONTRACT NO. 1
ASBESTOS REMOVAL AND ABATEMENT

SILVER BOW COUNTY
BUTTE, MONTANA
AMR PROJECT NUMBER: MONTANA A/E 90-46-101
CHEN-NORTHERN PROJECT NO. 90-3133E

PREPARED
BY
CHEN-NORTHERN, INC.
600 SOUTH 25TH STREET
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NOVEMBER, 1990

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1.0 INTRODUCTION

1.1 SITE DESCRIPTION

The Anselmo Mine site is on the northeast corner of the intersection of Excelsior and Caledonia Streets, about one and one-half miles west of uptown Butte. The mine complex is comprised of the main hoist house, hose house, north garage, central garage, south garage, office building, machine shop, toilet building, car pull/winch house, ore bins, carpenter shop, auxiliary hoist house, dry/change house, and mine yard.

The mining operation for this site with the present building configuration, started in the 1930's and was shut down during the strike of 1959. The main producing ore during its 30 years of operation was zinc with other associated heavy metals. Presently, the inactive mine yard is fenced on three sides and there are no homes in the immediate vicinity.

Asbestos containing building materials (ACBM) were identified by Casne and Associates in Helena, Montana, during the period of June and July, 1989. The ACBM consisted of pipe insulation, cement asbestos board siding, insulated electrical cables, roofing materials, asbestos containing wall and ceiling board and boiler insulation. The identified asbestos containing building materials (ACBM) are distributed throughout the mine complex.

1.2 MAP SHOWING MINE LOCATION

See following page.

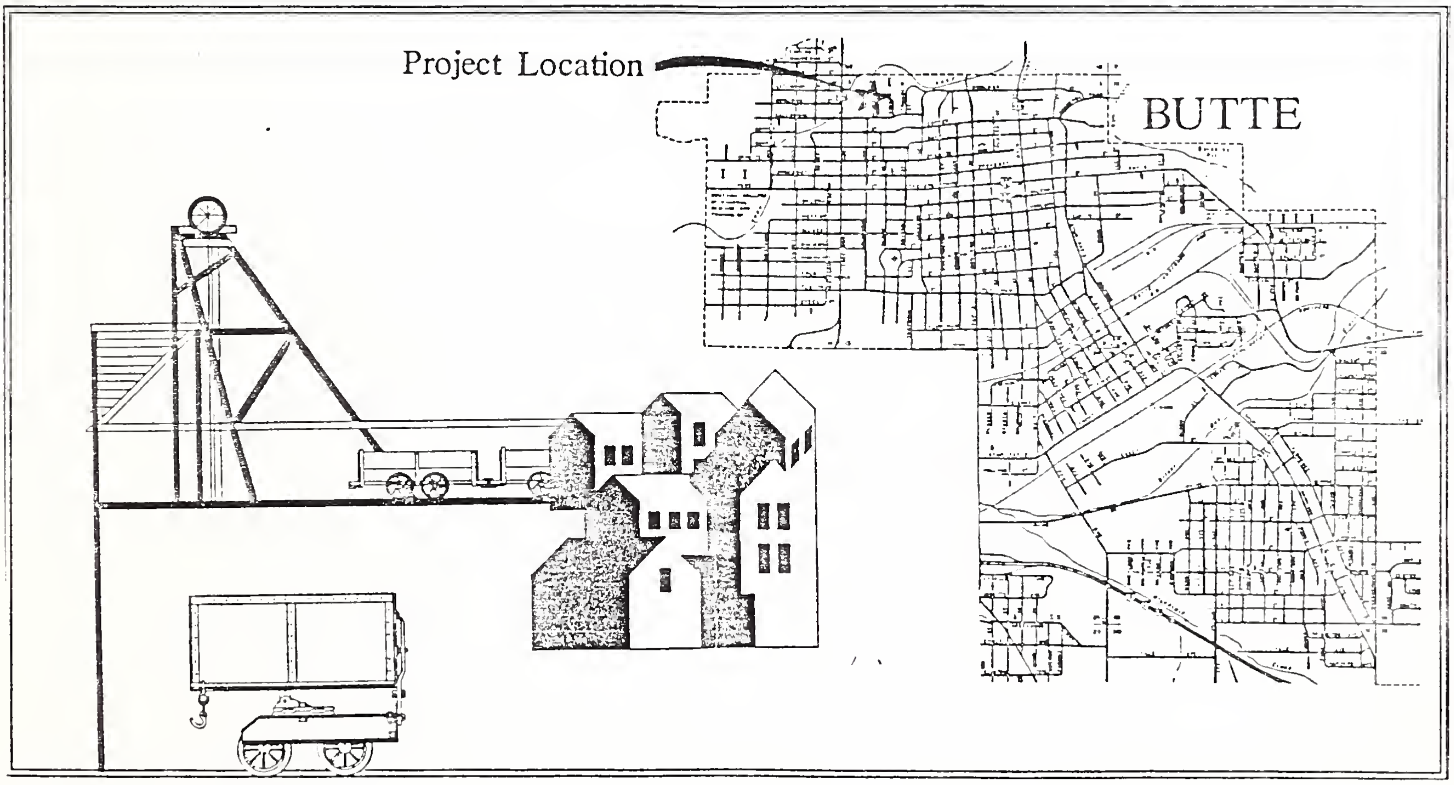
1.3 PROJECT OBJECTIVES

The purpose for the Anselmo Mine reclamation was the first phase of cleanup to prepare the area for public viewing as an historic site.

The first phase of work on this project consisted of removal or encapsulating known asbestos material, which is classified as a hazardous material.

Additional phases of AMR Construction in the future will restore the site to its original site condition by cleaning up the mine yard, repairing the ore tracks, repairing existing buildings and landscaping the area. Also an RIT funded phase of construction is planned to provide additional work on the buildings and to set up an interpretive center.

Work at the site during the Abandoned Mine Reclamation Program's Phase I construction consisted of removal and abatement of designated asbestos materials in or around several mine buildings, disposal of all debris and trash found in a ten foot area outside each building, installing locks and covers over pipe gallery entrances, and salvaging and stockpiling any loose historical artifacts.


Project Location
BUTTE

2.0 RESPONSIBLE PARTIES

The following people/firms have contributed to the coordination, design, execution, and inspection of the Anselmo Mine Reclamation Project:

■ RECLAMATION & ENGINEERING PLAN	Hydrometrics, Inc. 2727 Airport Road Helena, MT 59601
■ CONTRACTOR	Mountain States Abatement P O Box 8598 Missoula, MT 59807
■ QUALITY CONTROL INSPECTION	Chen-Northern, Inc. 600 South 25th Street P O Box 30615 Billings, MT 59107 Inspector: Richard Foust
■ AMRB COORDINATION	Mr. John Koerth Department of State Lands Abandoned Mine Reclamation 1625 11th Avenue Helena, MT 59620

3.0 CHRONOLOGICAL LISTING OF EVENTS

3.1 PROJECT BIDS

The Montana Department of Administration, Architecture and Engineering Division publicly opened bids for the Anselmo Mine Reclamation Project (MONT A/E 90-46-101) on June 14, 1990. The three lowest bids are presented below. Complete bid tabulations are included as Appendix A.

Mountain States Abatement, Missoula, MT	$151,067.00
Asbestos Building Corrections, Billings, MT	$158,700.00
Eco-Man, Idaho Falls, MT	$186,953.87

3.2 PROJECT CHRONOLOGY

The following chronology presents the sequence of events that led to completion of the Anselmo Mine Reclamation Project.

■ PREBID CONFERENCE	May 24, 1990
■ BID DATE	June 14, 1990
■ NOTICE OF AWARD	July 6, 1990
■ CONTRACTOR	Mountain States Abatement
■ NOTICE TO PROCEED	July 16, 1990
■ CONSTRUCTION START-UP	July 16, 1990
■ SUBSTANTIAL COMPLETION	August 24, 1990
■ FINAL ACCEPTANCE	October 12, 1990

On August 29, 1990, Mr. John Koerth of the Department of State Lands and Mr. Richard Foust, Project Inspector, performed a final inspection of the project. Mountain States Abatement received a punch list which was completed on September 7, 1990.

On September 7, 1990, Mr. John Koerth requested that the Contractor reclean the main hoist house lower level floor, totally wrap the boiler jackets, remove soil debris from existing debris pile southeast of the carpenter shop, and repair the tire tracks east of the office building. These items were completed and accepted on October 12, 1990, with the exception of the tire tracks, which will be re-evaluated spring, 1991, and will be treated as a warranty item.

The Anselmo Mine Reclamation Project was completed within the allowed contract time. No work stoppages were required.

4.0 CONSTRUCTION

4.1 DESCRIPTION OF PROJECT PLAN

Phase I was designed by Hydrometrics, Inc., in Helena, Montana, with the assistance of Casne and Associates. During Phase I construction, additional asbestos material was revealed for the roofing material of the Carpenter Shop, which was verified by bulk analysis. Due to the time frame of phase I, and cost proposed by the contractor, this material was not removed or encapsulated. Indicated quantities of asbestos material to be removed or encapsulated per design drawings were slightly higher than actual quantities.

Removal of asbestos containing material (ACM) during phase I was accomplished by establishing negative pressure containments with gross asbestos removal being performed in these containments; in three cases, negative pressure glove bags and minienclosures were used in removing small amounts of pipe insulation, and roofing and siding materials were encapsulated prior to removal.

The contractor's personnel wore the required protection, as indicated by OSHA standards, during removal operations.

Air monitoring was performed on a daily basis to verify the integrity of the negative pressure containments, verify that asbestos fibers had not been released from the work area to the outside air and to clear the work area after the removal had been completed.

4.2 CONTRACTOR'S OPERATION

The Anselmo Mine Reclamation Project was performed utilizing a crew of from 3 to 12 workers. Table 4-1 presents a summary of the Contractor's employees. Mr. Bob Kreig was the field superintendent for Mountain States Abatement during the course of construction. The equipment used to perform the asbestos abatement and removal is listed in Table 4-2.

TABLE 4-1
Summary of Contractors Employees

TIME FRAME - (WEEK ENDING)	NUMBER ASBESTOS WORKERS	NUMBER NONASBESTOS WORKERS	TOTAL EACH WEEK
July 21, 1990	4	1	5
July 28, 1990	6	6	11
August 4, 1990	6	6	12
August 11, 1990	4	2	6
August 25, 1990	4	2	6
September 1, 1990	3	0	3

TABLE 4-2
Major Equipment List

TYPE	MAKE/MODEL	NO. ON PROJECT	NO. OF DAYS ON PROJECT
Negative Air Machine	2,000 CFM	2	Duration
Scissors Lift	Unknown	1	Two
Crane	Unknown	1	Three

4.3 CONSTRUCTION ACTIVITIES

For The Week of July 15 through July 21, 1990

The contractor mobilized to site and unloaded equipment and material. The contractor started cleaning the main hoist house, hose house, north garage and central garage. Asbestos pipe insulation was removed from the main hoist house and the central garage by the use of glove bags. Access doors for the pipe galleries located throughout the project were being constructed.

For The Week of July 22, 1990 through July 28, 1990

The contractor was observed performing the following work:

Main Hoist House: Pressure washing the concrete floors of the upper, mezzanine and lower levels.

Office Building: Built containments for the asbestos insulated tank, east and west pipe gallery, and south pipe gallery; double wrapped asbestos insulated tank; removal of asbestos wrapped pipe and wood pipe gallery located on the north and east sides of the building; removal of asbestos pipe insulation in south pipe gallery; removal of asbestos insulation on pipe and encapsulated remaining pipe insulation in the west pipe gallery. HEPA vacuumed and wet wiped interior of building, debris cleanup inside of the building, encapsulated roofing and siding material, removal of nails and cleats from the roof and siding material, cleaned ten (10) feet around the exterior of the building, and installed cover and lock for west pipe gallery.

Machine Shop: General debris cleanup inside and ten (10) feet around outside of the building, removed asbestos insulation from the exterior pipe on east side of the building.

Toilet Building: General cleanup inside and ten (10) feet around exterior of building.

Car-Pull/Winch House: Installed critical barriers for future asbestos removal.

Carpenter Shop: Installed critical barriers, double wrapped existing insulated pipe, and general cleanup ten (10) feet around exterior of building.

Air Tank: Installed minienclosure for future asbestos pipe insulation removal by the use of glove bags.

For The Week July 29, 1990 through August 4, 1990

The contractor was observed performing the following work:

Main Hoist House: General cleanup around the exterior and in the interior of the building and sealing existing openings.

North, Central and South Garages: General cleanup around the exterior of the building.

Office Building: Completed the removal of the siding and roofing materials, recleaned inside the building and removed asbestos insulated pipe on the east exterior wall.

Machine Shop: Encapsulated and removed the roofing material.

Toilet Building: Encapsulated and removed the roofing material.

Car-Pull/Winch House: Encapsulated and removed the roofing material, and completed the asbestos removal and cleanup in the interior of the building.

Carpenter Shop: Completed the removal of the asbestos insulated pipe by double wrapping pipe and removing in sections, and continued debris cleanup for the interior of the building.

Auxiliary Hoist House: Performed general cleanup around the exterior of the building, erecting scaffold to allow access to the roof, cleaning and washing the second level floor, and sealing up existing openings.

For The Week of August 5, 1990 through August 11, 1990

The contractor was observed performing the following work:

Main Hoist House: HEPA vacuuming the piping and boilers in the boiler room; pressure washing the lower and upper concrete floors, and encapsulating damaged siding on the east end of the upper level.

Carpenter Shop: Completed asbestos removal and final cleanup inside the interior, and started building a cover for the pipe gallery located south of the carpenter shop.

Dry Change House: Installed critical barriers and set up decontamination units for the first and second floors for future asbestos removal and cleanup.

Auxiliary Hoist House: Completed asbestos removal and cleanup for the first floor area, general cleanup around the building, and encapsulated and removing roofing materials.

Ore Bins: Encapsulated, double wrapped and installed glove bags on the ACM insulated pipe on the east side of the ore bins.

For The Week of August 12, 1990 through August 18, 1990

The contractor was observed performing the following work:

Main Hoist House: Installed critical barriers and provided negative pressure in the containment for the boiler room, started HEPA vacuuming the floor for the boiler room, finished roof repairs on the east side, finished repairing, cleaning and encapsulating the interior and exterior siding on the east wall, and general cleanup of the second floor.

Ore House: Finished encapsulating and removal of roofing materials from the control room roof and encapsulated, double wrapped and removed asbestos insulated piping on the southside, east side of the ore house and east of the mine opening.

Auxiliary Hoist House: For the first and second floors, installed critical barriers and provided negative pressure in the containment, finished removal of asbestos pipe insulation, pressure washed the floors. Also completed the removal of encapsulated roofing material.

Dry Change House: Installed critical barriers and providing negative pressure for the containment of the second floor. Finished removing asbestos pipe insulation, encapsulated transite ceiling, HEPA vacuuming lockers and continued final cleaning for the second floor and for the storage tank. Installed critical barriers and provided negative pressure in the containment for the double wrapping of the tank and associated piping as well as soil removal.

For The Week of August 19, 1990 through August 25, 1990

The contractor removed asbestos contaminated soils around the central garage, south garage, office building, machine shop, car-pull/winch house, ore bins, auxiliary hoist house, air tank, and dry/change house; patched boilers, cleaned floors, painted boilers, swept lower level floor, picked up glass, pressure washed floors, and cleaned around oiling machines inside the main hoist house; completed pipe gallery cover for the east side of the office building; removed asbestos insulated pipe from control room and catwalk for the ore bins; completed pipe gallery cover south of the carpenter shop; and removed asbestos insulation materials, cleaned floors and lockers, locked down transite walls and ceilings for the first floor of the dry/change house; and removed asbestos insulated tank west of the dry/change house.

For The Week of August 25, 1990 through September 1, 1990

The contractor removed the critical barriers and equipment from the first floor level of the dry/change house and from the boiler room of the main hoist house, and completed items indicated on the deficiency list.

5.0 PROJECT QUANTITIES AND COSTS

5.1 PROJECT QUANTITIES

The project primarily consisted of asbestos removal and abatement and consequently new or replacement materials were not required under the scope of work.

Quantities of asbestos material to be removed were reflected by lineal feet, square footage and lump sum unit pricing. The volume of asbestos removed or the cost per unit for asbestos material disposed of cannot be calculated accurately due to the lump sum unit item. However, the bid tabulation indicated that the typical asbestos pipe removal cost was $30.00 per lineal foot; asbestos roof removal was $10.00 a square foot; asbestos removal for each individual pipe gallery was $250.00 per unit, and the unit price for encapsulating the asbestos materials remaining on site was approximately $5.00 per square foot.

5.2 CHANGE ORDERS

One change order was issued during the Anselmo Mine Reclamation Project for a net change in contract price of (+) $3,840.00, or 2.5% of the contract total. Table 5-1 presents specifics on the project change order and Appendix B contains a copy of this document.

TABLE 5-1
Project Change Order

Change Order No.	Description of Change Order	Amount	Approved Or Rejected	Date
1	Bid quantity adjustments reflecting actual quantities at contract unit prices	$3,840.00	Approved	10/15/90

The total cost of change order No. 1 is a credit of $3,840.00.

5.3 PAYMENT REQUESTS

The total contract amount of the Anselmo Mine Reclamation Project was $147,227.00. Table 5-2 presents a summary of the approved payment requests issued for the project. Appendix C contains copies of these Payment Requests and other relevant project close-out documents including, the Certificate of Substantial Completion and Affidavit on Behalf of Contractor.

TABLE 5-2
Payment Request Summary

Pay Request No.	Contractor	Amount *	Approved Or Rejected	Date
1	Mountain States Abatement	$76,879.00	Approved	8/14/90
2	Mountain States Abatement	$26,259.75	Approved	9/04/90
3	Mountain States Abatement	$42,616.00	Approved	10/15/90

* Excluding 1% state tax

5.4 PROFESSIONAL SERVICE FEES

Services provided by Chen-Northern, Inc., included construction contract administration, quantity accounting and full time resident inspection. The project was designed and engineered by a separate environmental consultant which caused Chen-Northern considerable administrative hours to reconcile. An analysis of these fees in relation to the total project total is included as Figure 5-1.

FIGURE 5-1
Analysis of Professional Service Fees
Anselmo Mine Reclamation Project

DATE OF PREPARATION:

ENGINEERING SERVICE	AMOUNT
Design Engineering:	
1989 Contract	*
1990 Contract	$23,394.11
Subtotal Design Engineering Cost:	*
Construction and Engineering and Project Administration Cost:	
1990 Contract	*
Subtotal Construction Engineering and Project Administration Cost:	*
TOTAL ENGINEERING COST:	*
CONSTRUCTION COST:	$147,227.00

TO CALCULATE PERCENTAGE ENGINEERING FEES TO CONSTRUCTION COST:

DESIGN ENGINEERING/CONSTRUCTION COST	*
CONSTRUCTION ENGINEERING/CONSTRUCTION COST	15.9%
TOTAL ENGINEERING COST/CONSTRUCTION COST	*

* Data not available at this time.

6.0 PROJECT SUMMARY

6.1 SUMMARY OF PROJECT

The reclamation project consisted of removal and abatement of designated asbestos materials in and around historic mine buildings at the Anselmo Mine in uptown Butte. The project accomplished the following items:

- interiors and ten (10) feet around the exterior of each building were cleaned of all trash and debris;
- all existing asbestos containing material was removed or encapsulated;
- all pipe galleries were covered and locked with appropriate asbestos signage located on the bottom side of the gallery cover; and
- historical artifacts were cleaned, collected and stored in locked rooms in the main and auxiliary hoist house.

This type of project required specific documentation regarding handling and disposal of hazardous materials. Appendix F contains dump receipts which indicate the proper removal and disposal of the asbestos containing materials and general debris from the project site during the construction phase.

During asbestos removal activities, it is required that air quality monitoring be performed to ensure worker safety. Appendix G contains the air monitoring results performed by Chen-Northern, Inc. and Mountain States Abatement.

6.2 SITE CONDITION AFTER COMPLETION

On August 29, 1990, during the final inspection performed by Mr. John Koerth and the project inspector, it was ascertained that additional asbestos containing materials were located in the roof of the carpenter shop, which had not been identified for abatement and removal. Bulk samples were obtained and analyzed and it was determined that additional asbestos containing materials were on the project site. Appendix G contains the results of the bulk analysis, a sketch to locate the samples and the extent of the asbestos containing materials. These asbestos containing materials in the carpenter shop roof were not removed as part of this reclamation project.

Friable asbestos containing building materials (ACBM) were also identified in the thermal system insulation of the Anselmo Mine buildings. In particular, the insulative material on the boiler units and the insulative material on the mechanical system piping, including both the straight runs and the mudded elbows and joints contain asbestos. Miscellaneous ACBM in the buildings consisted of asbestos insulated electrical cables, transite wall and ceiling panels, and cement asbestos board siding.

On October 3, 1990, the Contractor, Engineer, and Owner were on site to discuss work items needing completion before final project close-out could occur. The following three items identified were performed before final payment was processed: repair boiler jacket in specified areas, reclean floor in front of main door of main hoist house (approximately 64 square feet), and remove soil debris from existing debris pile, southeast of the carpenter shop.

At the time of this meeting off-site disturbance to ARCO reclamation was identified. The Contractor had driven on and stuck his crane in a previously reclaimed area, east of the office building. Repair of the contaminated soils cap and revegetation of the disturbed area may be required if the vegetation does not recover by Spring, 1991. Remediation of this off-site damage will be treated as a warranty work item and if required, will be corrected at the Contractor's expense within the one year project warranty period.

6.3 FUTURE MONITORING OF ON SITE ACBM

A. MANAGEMENT PLAN

A management plan has been prepared for the remaining ACBM. It is contained in Appendix D.

In addition, an Operations and Maintenance Program has been developed for the Anselmo Mine Reclamation Project. It is contained in Appendix E.

7.0 COMMENTS/SUGGESTIONS

The following comments/suggestions are offered to hopefully provide low contract bids, better contract documents, and to help design future asbestos removal and/or abatement projects.

7.1 DESIGN PHASE

Obtain more bulk samples in homogeneous areas to verify the presence or absence of ACBM.

Obtain building histories or plans to help determine ACBM locations.

Provide description and exact location of where bulk samples were taken.

Provide drawings indicating approximate location of ACBM, requiring removal for each individual building or site.

Provide drawing indicating approximate location of asbestos containing soils, requiring removal.

7.2 CONTRACT DOCUMENTS

The specifications should be more specific in the area of general requirements including summary of work, project coordination, definition and standards, codes, regulations and standards, submittals, test laboratory services, air monitoring, temporary pressure differential and air circulation system, temporary enclosures, worker protection, respiratory protection, decontamination units and work area clearance, instead of citing local and federal regulations.

The specifications should include a section describing the removal of asbestos containing materials and disposal of asbestos containing waste materials.

Recommend that work area samples and final clearance samples be analyzed using the Phase Contrast Microscopy (PCM) method in lieu of Transmission Electron Microscopy method. The TEM method could be used as an alternate for problem areas or as back-up. This would be a definite cost savings in the construction phase. Monitoring should always be an owner furnished function.

Recommend you require the contractor to provide submittals on equipment and materials so that the on-site inspector can verify the proper equipment and materials are being used on the project site.

Recommend that the design engineer and construction engineer be the same firm from the conception to the final completion of the asbestos abatement project.

8.0 SLIDE LOG OF ANSELMO MINE - DESCRIPTION

Enclosed in Appendix H is a site plan indicating the approximate location of each slide and the slides for the Anselmo Mine project. The slide numbering system begins in the upper left hand corner running horizontally to the right, then back to the left side and continues with this method.

8.1 Main Hoist House

A) Exterior

1. Existing condition of grounds on north side, looking south
2. Final condition of grounds on north side, looking south
3. Damage to existing siding, looking west
4. Encapsulating siding before reinstalling, looking west
5. Reinstalling siding, looking west
6. Finished product after encapsulation and installation, looking west
7. Installed roof patch, looking southwest

B) First Floor Interior

8. Existing condition, east of main door
9. Existing condition, north of main door
10. Existing condition, center of room, looking west
11. Final product, east of main door
12. Final product, north of main door
13. Final product, center or room, looking west
14. Existing condition - ACM pipe insulation, northeast corner
15. Installing negative pressure glove bag for pipe insulation removal, northeast corner
16. Remote decontamination unit, northeast corner
17. Finished product after ACM removal, northeast corner

C) Second Floor Interior

18. Existing condition - asbestos rope in center or room
19. Bagging asbestos rope and gaskets (Notice monitoring pumps)
20. Existing condition, looking east
21. Existing condition, looking west
22. Existing condition, looking south from northwest corner
23. Cleaning floor area, looking east
24. Pressure washing floor, looking southwest
25. Final product, looking east
26. Final product, looking west
27. Final product, looking south from northwest corner
28. Existing condition of level indicator
29. Level indicator after cleaning
30. Level indicator straightened

D) Boiler Room

31. Existing condition of boiler jacket, looking northeast
32. Finished product - boiler jacket on northside
33. Finished product - boiler jacket on southside

8.2 Mine Yard Views

34. Overall view, looking southwest
35. Overall view, looking south
36. Existing condition of grounds, looking south from hose house
37. Existing condition of grounds, southside of Main Hoist House
38. Finished product - grounds on southside of Main Hoist House
39. Finished product - grounds looking southwest from north garage
40. Finished product - grounds looking southeast from Main Hoist House
41. Crane track east of the office building

8.3 North, Central and South Garages

42. Existing condition - central garage, looking east
43. HEPA vacuuming interior surfaces - central garage looking east
44. Existing condition - ACM insulated pipe between central and south garage
45. ACM insulated pipe between central and south garage double wrapped prior to removal
46. North garage used as temporary storage for bagged ACM

8.4 Office

A) Exterior

47. Existing condition of siding and roofing material, looking northwest

1) Exterior (Siding)

48. Encapsulating ACM siding prior to removal, looking northwest
49. Removing ACM siding, looking west
50. Finished product after siding removal, looking north

Exterior (Roof)

51. Preparation for roof removal, looking east
52. Removing ACM roofing material, looking northwest
53. Finished product - ACM roofing material removed, looking northeast

2) Interior

54. Finished product - ACM pipe insulation removal - office bathroom

B) Pipe Gallery

55. Existing condition - east pipe gallery, looking north
56. Building containment for east pipe gallery, looking northwest
57. Finished product - east pipe gallery, looking north
58. Finished product - after soil removal completed for east pipe gallery
59. Finished product - looking down into west pipe gallery

C) Asbestos Coated Tank

60. Existing condition of asbestos coated tank, looking south
61. Building containment around tank area, looking southwest

62. Prior to soil removal, tank has been removed, looking southwest
63. Finished product - after tank and soil removal, looking south
64. Finished product - after tank and soil removal, looking west

8.5 Machine Shop

A) Interior
65. Existing condition of interior of machine shop, looking east
66. Contractor cleaning interior of machine shop, looking west

B) Exterior
67. Existing condition of ACM roofing material, looking southwest
68. Removing ACM roofing material, looking southeast
69. Finished product, after ACM roof material removal, looking east
70. Existing condition, ACM pipe insulation, east side of machine shop
71. Finished product - after removal of ACM pipe insulation, and roof material, looking southeast

8.6 Toilet

A) Exterior
72. Existing condition of ACM roofing material, looking south
73. Removing ACM roofing material, looking south
74. Finished product, after ACM roof material removed, looking south

8.7 Ore Bins

A) Exterior (Roof)
75. Existing condition of ACM roofing material, looking south
76. Finished product, after ACM roof material removed, looking south

B) Exterior (East Side of Ore Bin)
77. Existing condition of ACM insulated pipe, looking west
78. ACM insulated pipe double wrapped installing glove bag for pipe removal
79. Finished product, after ACM insulated pipe has been removed

C) Exterior - Southside of Ore Bin
80. Partial removal of ACM insulated pipe, looking north
81. Finished product after ACM insulated pipe has been removed

D) Exterior - Northeast Corner of Ore Bin
82. Existing condition of ACM insulated pipe, looking south
83. Finished product after ACM insulated pipe has been removed

E) Exterior - Ore Bin Catwalk
84. Existing condition of ACM insulated pipe, looking west
85. Finished product after ACM insulated pipe has been removed

F) Exterior - Miscellaneous Ore Bin
86. Finished Product - electrical wiring encapsulated

8.8 Carpenter Shop

A) Exterior and Interior

87. Existing condition, exterior view, looking west
88. Installing critical barriers - exterior view, looking west
89. Existing condition - ACM insulated pipe - interior, southwest corner
90. Existing condition - ACM insulated pipe along interior north wall
91. Finished product - floor cleaned - interior view, looking west
92. Finished product - pipe insulation removal and floor cleaned - interior view, southwest corner

B) Exterior Pipe Gallery

93. Existing condition - Notice water inside gallery, looking south
94. Pipe gallery after being dewatered, looking south
95. Finished product with cover and lock, looking southeast

C) Exterior Roof

96. Existing condition - confirmed ACM roofing material, looking south
97. Existing condition - confirmed ACM roofing material, looking northwest

8.9 Dry/Change House

A) Exterior Views

98. Existing condition, looking northwest
99. Existing condition, notice interior and crawlspace, looking north
100. Installing critical barriers prior to abatement, looking northwest
101. Installing critical barriers prior to abatement, looking northwest
102. Finished product - notice interior and crawlspace closure, looking north

B) Interior Views

103. Existing condition - first floor level, looking north
104. Existing condition - first floor level, looking north
105. Existing condition - second floor level, looking north
106. Existing condition - second floor level, looking north
107. Finished product - first floor level after abatement and cleaning, looking north
108. Finished product - second floor level after abatement and cleaning, looking north

C) Asbestos Coated Tank

109. Existing condition of tank, looking south
110. Building containment around tank, looking south
111. Finished product, after tank and soil removal, looking south
112. Finished product, after tank and soil removal, looking north

8.10 Car Pull/Winch House

A) Exterior and Interior Views

113. Existing condition - ACM insulated pipe, interior southwest corner
114. Installing critical barriers for future ACM removal, looking south
115. Building under containment for asbestos removal, looking south
116. Finished product - ACM roof material removal, looking south

8.11 Air Tank

117. Finished product - pipe gallery cover and lock, looking north
118. Finished product - ACM removed from pipes, looking north

8.12 Auxiliary Hoist House

A) Interior

119. Existing condition of first floor area, looking west
120. Existing condition of first floor area, looking south
121. Existing condition of first floor area, south wall
122. Pressure washing first floor along south wall
123. Final product of first floor area, looking west
124. Final product of first floor area, looking south
125. Existing condition of second floor area, looking southeast
126. Existing condition of second floor area, looking southwest
127. Pressure washing second floor area, looking southwest
128. Final product of second floor area, looking southeast
129. Final product of second floor area, looking south
130. Full containment for first floor level for asbestos removal, looking southwest

B) Exterior Roof

131. Removing ACM roof material, looking southwest
132. Finished Product - ACM roof material removed, looking northwest (lower left of slide)

C) Exterior - Miscellaneous Work

133. Existing condition - ACM insulated pipe on ground, north side of building
134. Existing condition - ACM insulated pipe, northside of building
135. Finished product - ACM pipe insulation and soil removal, north side of building

APPENDIX

APPENDIX A

BID TABULATIONS

BID TABULATIONS

ABANDONED MINE RECLAMATION BUREAU
BID DATE: JUNE, 14, 1990

				Mountain States Missoula, MT MT LIC. 7535A		Eco-Man Idaho Falls, ID MT LIC. 7260A		K&L Insulation Fargo, ND MT LIC. 07704A		Insulation Removal Specialists Spokane, WA MT LIC. 07701A		Envir-O-Tech Billings, MT MT LIC. 06832A		Asbestos Building Corrections Billings, MT MT LIC.06832A	
Item No.	Description	Unit	Qty	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
1A	Mobilization	LS	1		$ 2,000		$ 5,000		$18,000		$10,410		$ 5,000		$3,772
1a	Debris cleanup	LS	1		4,466		22,415		83,250		33,800		25,000		22,000
1b	Asbestos removal	LF	50	$25	1,250	$17.16	858		*	$11.52	576	$20	1,000	$54	2,700
1c	Asbestos Abatement Siding	SF	180	20	3,600	39.65	7,137		*	48.38	8,703	14.17	2,550.60	27.29	4,913
1d	Asbestos Abatement Boiler Room	LS	1		4,000		12,144		*		13,375		7,500		N/A
1e	Asbestos Debris	LS	1		1,000		4,286		*		745		2,000		N/A
2a	Debris Cleanup	LS	1		706		859		165		281		800		600
3a	Asbestos Debris Cleanup	LS	1		2,500		1,858		1,853		556		2,200		1,200
3b	HEPA Vacuum	LS	1		3,000		428		*		493		850		600
4a	Asbestos Debris Cleanup	LS	1		1,000		1,002		3,140		1,504		1,950		600
4b	Asbestos Removal Pipes	LF	25	25	625	11.40	285		*	12.44	311	30	750	52	1,300
4c	HEPA Vacuum	LS	1		1,000		428		*		493		850		600
5a	Asbestos Debris Cleanup	LS	1		2,500		1,143		2,959		687		1,950		3,600
5b	HEPA vacuum	LS	1		2,500		428		*		1,348		850		1,300
6a	Asbestos Debris Cleanup	LS	1		3,000		3,429		34,055		5,535		2,800		1,200
6b	Asbestos Removal Pipes	LF	54	25	1,350	8.00	432		*	11.84	639.36	20	1,080	40.74	2,200
6c	Asbestos Removal Tank Coating	SF	90	40	3,600	91.40	8,226		*	33.85	3,046.50	72.22	4,499.80	16.67	1,500
6d	Asbestos Removal West Pipe Gallery	Each	1	200	200	711.00	711		*	942.00	942.00	2,700	2,700.00	1,000	1,000
6e	Asbestos Removal East Pipe Gallery	Each	1	200	200	857.28	857.28		*	1,228.00	1,228.00	2,750	2,750.00	1,000	1,000
6f	Asbestos Removal Siding and Roofing	SF	3100	5	15,500	3.12	96.72		*	2.78	8,618.00	3.02	9,362.00	3.03	9,400
6g	HEPA Vacuum	LS	1		1,500		1,428.00		*		3,663.00		1,200.00		1,200
7a	Debris Cleanup	LS	1		4,000		1,715.00		12,450		4,110.00		3,500.00		2,700
7b	Asbestos Abatement Roofing	SF	3400	5	17,000	2.32	7,888.00		*	3.19	10,846.00	3.00	10,200.00	2.59	8,800
7c	Asbestos Removal Pipe Gallery	Each	1	200	200	1,143.04	1,143.04		*	610.00	610.00	2,000.00	2,000.00	1,000	1,000
7d	Asbestos Removal Pipes	LF	15	25	375	14.29	214.35		*	10.46	156.90	2.00	30.00	100	1,500
8a	Debris Cleanup	LS	1		1,000		714.00		2,287		933.00		1,000.00		600

BID TABULATIONS
ABANDONED MINE RECLAMATION BUREAU
BID DATE: JUNE, 14, 1990

Item				Mountain States Missoula, MT MT LIC. 7535A		Eco-Man Idaho Falls, ID MT LIC. 7260A		K&L Insulation Fargo, ND MT LIC. 07704A		Insulation Removal Specialists Spokane, WA MT LIC. 07701A		Envir-O-Tech Billings, MT MT LIC. 06832A		Asbestos Building Corrections Billings, MT MT LIC.06832A	
No.	Description	Unit	Qty	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
8b	Asbestos Abatement Roofing	SF	100	$5	$500	$3.25	$325		*	$3.19	$319	$7	$700	$25	$2,500
9a	Asbestos Debris Cleanup	LS	1		2,000		857		7,985		2,740		2,800		600
9b	Asbestos Removal Pipes	LF	20	25	500	14.29	285.80		*	11.84	236.80	20	400	95	1,900
9c	Asbestos Abatement Roofing	SF	300	5	1,500	3.70	1,110.00		*	3.19	957.00	5	1,500	4	1,200
9d	HEPA Vacuum	LS	1		1,000		428.00		*		526.00		800		600
10a	Asbestos Debris Cleanup	LS	1		4,000		1,715.00		9,257		2,041.00		4,500		900
10b	Asbestos Removal Pipes	LF	140	5	700	9.00	1,260.00		*	11.84	1,657.60	20	2,800	25	3,500
10c	HEPA Vacuum	LS	1		4,000		1,428.00		*		4,862.00		1,500		900
10d	Asbestos Removal Pipe Gallery	Each	1	200	200	571.00	571.00		*	650.00	650.00	2,200	2,200	1,000	1,000
10e	Dewater Pipe Gallery	Gal	2000	1.06	2,120	0.15	300.00		*	0.43	860.00	1.75	3,500	0.90	1,800
11a	Asbestos Debris Cleanup	LS	1		7,000		7,288.00		63,049		5,715.00		8,200		5,350
11b	Asbestos Removal Pipes	LF	250	5.00	1,250	8.00	2,000.00		*	11.84	2,960.00	8.00	2,000	14.00	3,500
11c	Asbestos Removal Tank	SF	400	20.00	8,000	35.72	14,288.00		*	19.19	7,676.00	20.25	8,100	5.00	2,000
11d	HEPA Vacuum	LS	1		4,000		9.716.00		*		8,599.00		2,500		5,350
11e	Asbestos Abatement Encapsulated Walls	SF	7700	1.00	7,700	0.41	3,157.00		*	0.23	1,771.00	1.93	14,861	0.30	2,300
11f	Asbestos Abatement Board Opening	SF	40	5.00	200	17.88	715.20		*	4.57	182.80	12.50	500	25.00	1,000
12a	Asbestos Debris Cleanup	LS	1		3,000		5,357.00		23,350		5,086.00		11,950		4,450
12b	Asbestos Removal Pipes	LF	90	5.00	450	9.53	857.70		*	11.84	1,065.60	20.00	1,800	38.89	3,500
12c	Asbestos Abatement Roofing	SF	2100	2.00	4,200	3.41	7,161.00		*	6.38	13,398.00	3.78	7,938	4.33	9,100
12d	HEPA Vacuum	LS	1		5,000		2,143.00		*		5,537.00		2,500		4,450
13a	Asbestos Removal Pipe Gallery	Each	1	200.00	200	1,001.00	1,001.00		4,911	450.00	450.00	1,500.00	1,500	1,200	1,200
13b	Asbestos Removal Pipes	LF	10	5.00	50	4.29	429.00		*	11.52	115.20	40.00	400	190	1,900
14a1	Catwalk	LS	1		1,000		2,571.00		18,386		250.00		1,500		1,153
14a2	Control Room	LS	1		1,000		1,428.00		*		450.00		1,650		1,000
14a3	Other	LS	1		1,000		858.00		*		800.00		1,500		1,000
14b	Asbestos Removal Pipe	LF	205	25.00	5,125	20.90	4,284.50		*	12.84	2,632.00	20.00	4,100	19.51	1,000
14c	Asbestos Abatement Electrical Cables	LF	10	30.00	300	28.60	286.00		*	8.00	80.00	45.00	450	100.00	1,000

BID TABULATIONS
ABANDONED MINE RECLAMATION BUREAU
BID DATE: JUNE, 14, 1990

				Mountain States Missoula, MT MT LIC. 7535A		Eco-Man Idaho Falls, ID MT LIC. 7260A		K&L Insulation Fargo, ND MT LIC. 07704A		Insulation Removal Specialists Spokane, WA MT LIC. 07701A		Envir-O-Tech Billings, MT MT LIC. 06832A		Asbestos Building Corrections Billings, MT MT LIC.06832A	
Item No.	Description	Unit	Qty	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
14d1	HEPA Vacuum Catwalk	LS	1		1,000		1,143.00		*		250.00		500		750
14d2	HEPA Vacuum Control	LS	1		1,000		572.00		*		450.00		500		750
14e	Asbestos Abatement Roofing	SF	200	5.00	1,000	21.44	4,288.00		*	4.19	838.00	3.00	600	12.50	2,500
15	Asbestos Removal Grounds	SY	300	10.00	3,000	38.10	11,430.00		*	122.93	36,879.00	20.00	6,000	20.87	6,262
16a	PCM Interim Samples	Each	50	20.00	1,000	60.00	3,000.00		2,000	27.00	1,350.00	30.00	1,500	120.00	6,000
TOTALS:					151,067		186,953.87		287,097		224,993.96		195,621.40		158,700

* Included as lump sum

APPENDIX B

CHANGE ORDERS

CHANGE ORDER

ORDER NO: 1

PROJECT TITLE: Anselmo Mine Reclamation Contract No. 1 - Asbestos Abatement and Repair 90-46-101

MONT A/E or DSL-AMRB: Chen-Northern, Inc.

CONTRACT DATE: 7/16/90 to 9/13/90

OWNER: Montana Department of State Lands - Abandoned Mine Reclamation Bureau

CONTRACTOR: Mountain States Abatement, Inc.

Change Orders must be accompanied by an itemized cost breakdown. You are hereby requested to comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES - ESTIMATED QUANTITIES & UNITS	COST OF CHANGES					TOTAL COST
		MAT'LS.	LABOR	EQUIP.	MISC.	TOTAL UNIT COST	
1	Bid quantity adjustments reflecting actual quantities at contract unit prices (see attachment)						$3,840

TOTAL COST - MATERIALS, LABOR, EQUIPMENT & MISC.	3,840.00
OVERHEAD & PROFIT @ 0 %	0.00
GRAND TOTAL - THIS CHANGE ORDER	3,840.00

Original Contract Price	151,067.00
Current Contract Price Adjusted by Previous Change Order	N/A
Cost this Change Order (+ or -_)	- 3,840.00
New Contract Price including this Change Order	$ 147,227.00

The completion date as set forth in the Contract Documents shall be ([✓ unchanged], increased, decreased) by 0 calendar days.

The date for completion of all work will be 9/13/90.

Description and Justification for Change:

1. Bid quantity adjustments reflecting actual quantities at unit prices bid (see attachment).

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order. The Principal and the Surety further agree that on or after execution of this consent, the penalty of the applicable Performance Bonds or Bonds is hereby increased by $__________ (100% of the Change Order amount) and the penalty of the applicable Labor and Material Bond or Bonds is hereby increased by $__________ (100% of the Change Order amount).

COUNTERSIGNED BY MONTANA RESIDENT AGENT

SURETY

By:

Seal

Recommended by: Engineer — Date: 9-21-90

Accepted by: Contractor — Date: 9-17-90

Approved by: JK Larry Marshall Owner — Date: 10/15/90

ATTACHMENT

BID QUANTITY ADJUSTMENT
ANSELMO MINE RECLAMATION

Item No.	Difference Between Bid & Actual Quantities	Unit	Description	Unit Price	Total Price (+ or -)
10e	1,500	Gallons	Dewater pipe gallery	$1.06	- $1,590
11b	10	Lineal Feet	Asbestos removal pipes	5.00	+ 50
11e	1,700	Square Feet	Asbestos abatement, encapsulation walls and ceilings	1.00	- 1,700
12c	200	Square Feet	Asbestos abatement, roofing	2.00	+ 400
16A	50	each	PCM interim samples	20.00	- 1,000

BID QUANTITY ADJUSTMENT .... $ 3,840.00

APPENDIX C

PAYMENT REQUESTS

AUG 16 '90
BILLINGS

PAYMENT REQUEST NO. 1

FROM 7-16-90 TO 7-31-90

PROJECT TITLE: Anselmo Mine Contract #1 - Asbestos Abatement & Removal

LOCATION: Butte, Montana MONT A/E or ~~DSL AMRB:~~ 90-46-101

NAME OF CONTRACTOR: Mountain States Abatement, Inc.

ADDRESS: P.O. Box 8598 Missoula, Montana 59807

CHANGE ORDERS		
No.	Description	Amount
	None to date	
Total Change Orders		

CONTRACT STATUS			
Total Amount	Completed Amount	Uncompleted Amount	Percent Complete
150567.00	77656.00	72911.00	51

CONTRACT TO DATE INCLUDING CHANGE ORDERS $ 150,567.00

* For use only when securities are on deposit in lieu of retainage.

TOTAL RETAINAGE $

SECURITIES ON DEPOSIT $

ADJUSTED RETAINAGE $

COMPLETED TO DATE	$ 77656.00
PLUS MATERIALS ON SITE	$
TOTAL COMPLETED TO DATE	$ 77656.00
LESS RETAINAGE	$
TOTAL AMOUNT EARNED TO DATE	$ 77656.00
LESS PREVIOUS PAYMENTS	$ -0-
AMOUNT DUE THIS PAYMENT	$ 77656.00
LESS 1% TAX	$ 777.00
TOTAL DUE CONTRACT	$ 76879.00

I certify that this claim is correct and just in all respects and that payment or credit has not been received.

Mountain States Abatement, Inc.
Contractor
By Robert Krey
Date August 9, 1990

APPROVED BY:

Owner
By JMc Larry Marshall
Date 8/14/90

RECOMMENDED BY:

CHEN - NORTHERN
Engineer
By D Hummel
Date 8-10-90

ITEMIZATION OF QUANTITIES AND CC

Item	Description	Estimated Plan Quantity	Unit Price Bid	Units Completed to Date	Total Cost of Completed Work	Percent Complete
1A	MOBILIZATION	lump sum	2000.00	0.50	1000.00	50
1	MAIN HOIST HOUSE					
	a) Debris cleanup	lump sum	4466.00	0.67	3000.00	67
	b) Asbestos removal-pipes	50 LF	25.00	50.00	1250.00	100
	c) Asbstos abatement-siding	180 SF	20.00	0.00	0.00	0
	d) Asbestos abatement-boiler room	lump sum	4000.00	0.00	0.00	0
	e) Asbestos debris cleanup	lump sum	1000.00	1.00	1000.00	100
2	HOSE HOUSE					
	a) Debris cleanup	lump sum	706.00	1.00	706.00	100
3	NORTH GARAGE					
	a) Asbestos debris cleanup	lump sum	2500.00	1.00	2500.00	100
	b) HEPA vacuum	lump sum	3000.00	1.00	3000.00	100
4	CENTRAL GARAGE					
	a) Asbestos debris cleanup	lump sum	1000.00	1.00	1000.00	100
	b) Asbestos removal-pipes	25 LF	25.00	25.00	625.00	100
	c) HEPA vacuum	lump sum	1000.00	1.00	1000.00	100
5	SOUTH GARAGE					
	a) Asbestos debris cleanup	lump sum	2500.00	1.00	2500.00	100
	b) HEPA vacuum	lump sum	2500.00	1.00	2500.00	100
6	OFFICE					
	a) Asbestos debris cleanup	lump sum	3000.00	1.00	3000.00	100
	b) Asbestos removal-pipes	54 LF	25.00	54.00	1350.00	100
	c) Asbestos removal tank coating	90 SF	40.00	0.00	0.00	0
	d) Asbestos removal-W pipe gallery	lump sum	200.00	1.00	200.00	100
	e) Asbestos removal- E pipe gallery	lump sum	200.00	1.00	200.00	100
	f) Asbestos removal-siding, roofing	3100 SF	5.00	3100.00	15500.00	100
	g) HEPA vacuum	lump sum	1500.00	1.00	1500.00	100
7	MACHINE SHOP					
	a) Debris cleanup	lump sum	4000.00	1.00	4000.00	100
	b) Asbestos abatement-roofing	3400 SF	5.00	3400.00	17000.00	100
	c) Asbestos removal-pipe gallery	lump sum	200.00	1.00	200.00	100
	d) Asbestos removal - pipes	15 LF	25.00	15.00	375.00	100
8	TOILET ROOM					
	a) Debris cleanup	lump sum	1000.00	1.00	1000.00	100
	b) Asbestos abatement-roofing	100 SF	5.00	100.00	500.00	100
9	CAR PULL/WINCH HOUSE					
	a) Asbestos debris cleanup	lump sum	2000.00	1.00	2000.00	100
	b) Asbestos removal pipes	20 LF	25.00	20.00	500.00	100
	c) Asbestos abatement-roofing	300 SF	5.00	300.00	1500.00	100
	d) HEPA vacuum	lump sum	1000.00	1.00	1000.00	100
10	CARPENTER SHOP					
	a) Asbestos debris cleanup	lump sum	4000.00	1.00	4000.00	100
	b) Asbestos removal-pipes	140 LF	5.00	140.00	700.00	100
	c) HEPA vacuum	lump sum	4000.00	0.75	3000.00	75
	d) Asbestos removal-pipe gallery	lump sum	200.00	0.00	0.00	0
	e) dewater pipe gallery	200 gal	1.00	0.00	0.00	0
11	DRY/CHANGE HOUSE					
	a) Asbestos debris cleanup	lump sum	7000.00	0.00	0.00	0
	b) Asbestos removal-pipes	250 LF	5.00	0.00	0.00	0
	c) Asbestos removal tank	400 SF	20.00	0.00	0.00	0
	d) HEPA vacuum	lump sum	4000.00	0.00	0.00	0
	e) Asbestos abatement-encapsulation walls and ceilings	7700 SF	1.00	0.00	0.00	0
	f) Asbestos abatement-board opening	40 SF	5.00	0.00	0.00	0

Item	Description	Estimated Plan Quantity	Unit Price Bid	Un Completed to Date	Total Cost of Completed Work	Percent Complete
12	AUXILIARY HOIST HOUSE					
	a) Asbestos debris cleanup	lump sum	3000.00	0.00	0.00	0
	b) Asbestos removal-pipes	90 LF	5.00	0.00	0.00	0
	c) Asbestos abatement-roofing	2100 SF	2.00	0.00	0.00	0
	d) HEPA vacuum	lump sum	5000.00	0.00	0.00	0
13	AIR PIPELINE, WOODEN SUPPORT TRESTLE					
	a) Asbestos removal-pipe gallery	lump sum	200.00	0.00	0.00	0
	b) Asbestos removal-pipes	10 LF	5.00	10.00	50.00	100
14	ORE BINS					
	a) Asbestos debris cleanup					
	1) Catwalk	lump sum	1000.00	0.00	0.00	0
	2) Control room	lump sum	1000.00	0.00	0.00	0
	3) Other	lump sum	1000.00	0.00	0.00	0
	b) Asbestos removal-pipe	205 LF	25.00	0.00	0.00	0
	c) Asbestos abatement-electrical cables	10 LF		0.00	0.00	0
	d) HEPA vacuum					
	1) Catwalk	lump sum	1000.00	0.00	0.00	0
	2) Control room	lump sum	1000.00	0.00	0.00	0
	c) Asbestos abatement-roofing	200 SF	5.00	0.00	0.00	0
15	ASBESTOS REMOVAL - GROUNDS					
	a) Asbestos removal-grounds	300 SY	10.00	0.00	0.00	0
					77656.00	

PAYMENT REQUEST NO. 2

FROM 8-1-90 TO 8-15-90

PROJECT TITLE: Anselmo Mine Reclamation Contract #1 - Asbestos Abatement & Removal

LOCATION: Butte, Montana MONT A/E or ~~DSL-AMRB~~: 90-46-101

NAME OF CONTRACTOR: Mountain States Abatement, Inc.

ADDRESS: P.O. Box 8598 Missoula, Montana 59807

CHANGE ORDERS		
No.	**Description**	**Amount**
	None to date	
Total Change Orders		

CONTRACT STATUS			
Total Amount	**Completed Amount**	**Uncompleted Amount**	**Percent Complete**
150567.00	104181.00	46386.00	69

CONTRACT TO DATE INCLUDING CHANGE ORDERS $ 150,567.00

* For use only when securities are on deposit in lieu of retainage.

TOTAL RETAINAGE	$
SECURITIES ON DEPOSIT	$
ADJUSTED RETAINAGE	$

COMPLETED TO DATE	$ 104,181.00
PLUS MATERIALS ON SITE	$
TOTAL COMPLETED TO DATE	$ 104,181.00
LESS RETAINAGE	$
TOTAL AMOUNT EARNED TO DATE	$ 104,181.00
LESS PREVIOUS PAYMENTS (PENDING)	$ 77656.00 ~~-0-~~
AMOUNT DUE THIS PAYMENT	$ 26,525.00
LESS 1% TAX	$ 265.25
TOTAL DUE CONTRACT (PR#2)	$ 26,257.75 ~~103,138.75~~

I certify that this claim is correct and just in all respects and that payment or credit has not been received.

Mountain States Abatement, Inc.
Contractor

By

Date August 17, 1990

RECOMMENDED BY:

CHEN-NORTHERN INC
Engineer

By

Date 8-24-90

APPROVED BY:

JWK
Owner

By Larry Mandell

Date 9/4/90

OCT 18 '90
BILLINGS

PAYMENT REQUEST NO. 3

FROM 8-16-90 TO completion

PROJECT TITLE: Anselmo Mine Reclamation Contract #1 - Asbestos Abatement & Removal

LOCATION: Butte, Montana MONT A/E or DSL/AMRB# 90-46-101

NAME OF CONTRACTOR: Mountain States Abatement, Inc.

ADDRESS: P.O. Box 8598 Missoula, MT 59807

CHANGE ORDERS		
No.	Description	Amount
1	Quantity adjustment	3,840.00
Total Change Orders		3,840.00

CONTRACT STATUS			
Total Amount	Completed Amount	Uncompleted Amount	Percent Complete
147227.00	147227.00	-0-	100

CONTRACT TO DATE INCLUDING CHANGE ORDERS $ 147227.00

* For use only when securities are on deposit in lieu of retainage.

TOTAL RETAINAGE $
SECURITIES ON DEPOSIT $
ADJUSTED RETAINAGE $

COMPLETED TO DATE $ 147227.00
PLUS MATERIALS ON SITE $ ~~147227.00~~
TOTAL COMPLETED TO DATE $ 147227.00
LESS RETAINAGE $
TOTAL AMOUNT EARNED TO DATE $ 147227.00
LESS PREVIOUS PAYMENTS $ 104181.00
Pending 20259 75
AMOUNT DUE THIS PAYMENT $ 43046.00
LESS 1% TAX $ 430.00
TOTAL DUE CONTRACT $ 42616.00

I certify that this claim is correct and just in all respects and that payment or credit has not been received.

Mountain States Abatement, Inc.
Contractor
By
Date 9-17-90

APPROVED BY:

Owner
By Larry Marshall
Date 10/15/90

RECOMMENDED BY:

CHEN - NORTHERN INC
Engineer
By David M Hummel
Date 9/21/90

CERTIFICATE OF SUBSTANTIAL COMPLETION

TO: Department of State Lands, Abandoned Mine Reclamation Bureau OWNER

PROJECT TITLE: Anselmo Mine Contract No.1 - Asbestos Abatement & Removal

MONT A/E or ~~DSL-AMRB~~ 90-46-101

CONTRACT DATE: 7-6-90

LOCATION: Butte, Montana

PROJECT OR PART SHALL INCLUDE:
entire project

CONTRACTOR: Mountain States Abatement, Inc.

ADDRESS: P.O. Box 8598
Missoula, MT 59807

TELEPHONE NO: 721-6236

SUBSTANTIAL COMPLETION DATE: 8-24-90

DSL INSPECTION DATE:

ENGINEER: Chen-Northern

PERFORMANCE BOND NO: 118535

DATE OF BOND: 6-29-90

SURETY: American Bonding Co.

MONTANA AGENT: Western States Insurance

ADDRESS: P.O. Box 4386
Missoula, MT 59806

The Work performed under this Contract has been inspected by authorized representatives of the Owner, Contractor, and Engineer, and the Project (or specified part of the Project, as indicated above) is hereby declared to be substantially completed on the above date.

DEFINITION OF SUBSTANTIAL COMPLETION

The date of substantial completion of a project or specified area of a project is the date when the construction is sufficiently completed, in accordance with the contract documents, as modified by any change orders agreed to by the parties, so the Owner can occupy or utilize the project or specified area of the project for the use for which it was intended.

A tentative list of items to be completed is appended hereto. This list may not be exhaustive, and the failure to include an item on it does not alter the responsibility of the Contractor to complete all the Work in accordance with the Contract Documents.

ENGINEER: Chen-Northern

By 8/31/90
Authorized Representative Date

The Contractor accepts the above Certificate of Substantial Completion and agrees to complete and correct the items on the tentative list within the time indicated.

CONTRACTOR: Mountain States Abatement, Inc.

By 8-24-90
Authorized Representative Date

The Owner accepts the Project or specified area of the Project as substantially complete and will assume full possession of the project or specified area at _______ (time), on _____________ (date). The responsibility for heat, utilities, security, and insurance under the Contract Documents shall be as set forth under "Remarks" below.

OWNER: ____________________

By ____________________
Authorized Representative Date

Remarks: (Attach additional sheet, if necessary)

Rev. 7/90

CONTRACTOR'S CERTIFICATE OF COMPLETION

TO (Owner): Depst. of State Lands
Abandoned Mine Reclamation Bureau

DATE: August 24, 1990

PROJECT TITLE: Anselmo Mine Contract No.1
Asbestos Abatement & Removal

MONT A/E or ~~DSL/AMRB~~: 90-46-101

ATTN: Engineer Chen-Northern

CONTRACT DATE: 7-6-90

FROM: Mountain States Abatement, Inc.
(Firm or Corporation)

This is to certify that I, Robert Krieg, am an authorized official of Mountain States Abatement, Inc., working in the capacity of owner/supervisor and have been properly authorized by said firm or corporation to sign the following statements pertaining to the subject contract:

> I know of my own personal knowledge, and do hereby certify, that the work of the contract described above has been performed, and materials used and installed in every particular, in accordance with, and in conformity to, the Contract Plans and Specifications.
>
> The contract work is now complete in all parts and requirements and ready for your final inspection.
>
> I understand that neither the determination of the Engineer that the work is complete nor the acceptance thereof by the Owner shall operate as a bar to claim against the Contractor under the terms of the guarantee provisions of the Contract Documents.

CONTRACTOR: Mountain States Abatement, Inc.

By: Owner
Title

Distribution:
1. Project Manager
2. Field Office
3. File

Rev. 7/90

APPENDIX D

MANAGEMENT PLAN

MANAGEMENT PLAN

INTRODUCTION

The Anselmo Mine complex was inspected during the period of June and July of 1989 by Casne and Associates in Helena, Montana. The inspection information was used by Hydrometrics in Helena, Montana, to prepare and implement an asbestos removal and encapsulation design.

A construction phase, during the period of July, 1990, through October, 1990, was implemented to remove and encapsulate designated asbestos material from the Anselmo Mine complex, per Hydrometric's design. This information is located in Section 4.0 (Construction) of this report.

Since the construction phase involved only a partial removal of asbestos materials from the facility, the State requested that a management and operations and maintenance plan be prepared.

Based on Asbestos Hazard Emergency Response Act (AHERA) recommendations, the following management plan has been prepared, by Richard Foust of Chen-Northern, Inc., in Billings, Montana, indicating hazard assessments and recommended response actions for the asbestos materials not removed under the construction phase. Mr. Foust's management planning accreditation certificate is enclosed.

BUILDING DESCRIPTION

Building Description

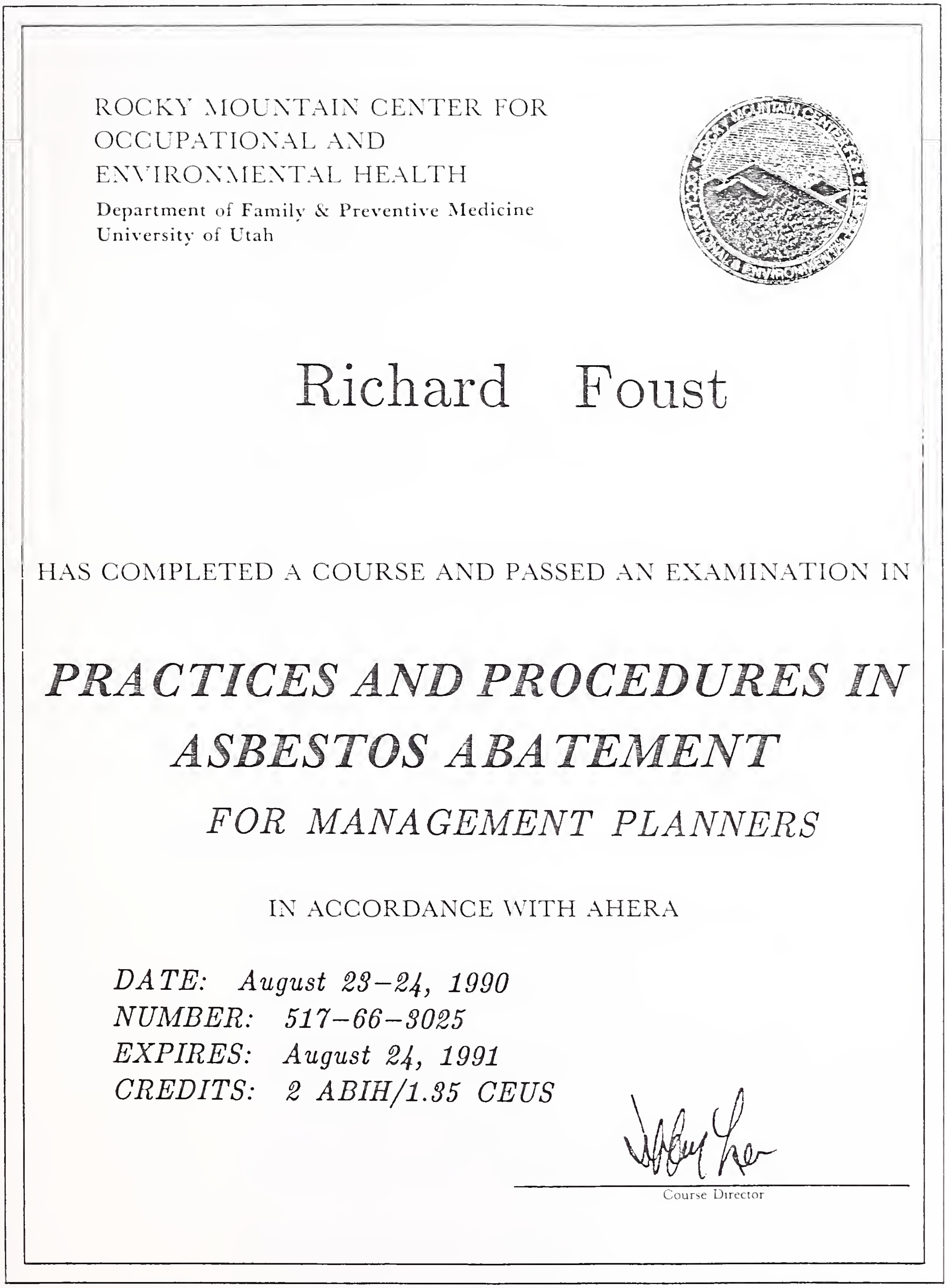
The Anselmo Mine complex is comprised of the main hoist house, hose house, north garage, central garage, south garage, office building, machine shop, toilet building, car-pull/winch house, ore bins, carpenter shop, auxiliary hoist house, dry/change house, and mine yard.

INSPECTION REPORT SUMMARY

Friable asbestos containing building material (ACBM) was identified in the thermal system insulation, in particular, the insulative material on the boiler units and the insulative material on the mechanical system piping, including both the straight runs and the mudded elbows and joints.

Miscellaneous ACBM in the buildings consisted of asbestos insulated electrical cables, transite wall and ceiling panels, and cement asbestos board siding.

Our personnel determined, through bulk sample analysis, that the carpenter shop has asbestos containing roof materials.



ROCKY MOUNTAIN CENTER FOR
OCCUPATIONAL AND
ENVIRONMENTAL HEALTH
Department of Family & Preventive Medicine
University of Utah

Richard Foust

HAS COMPLETED A COURSE AND PASSED AN EXAMINATION IN

PRACTICES AND PROCEDURES IN ASBESTOS ABATEMENT

FOR MANAGEMENT PLANNERS

IN ACCORDANCE WITH AHERA

DATE: *August 23–24, 1990*
NUMBER: *517–66–3025*
EXPIRES: *August 24, 1991*
CREDITS: *2 ABIH/1.35 CEUS*

Course Director

HAZARD ASSESSMENT AND RECOMMENDED RESPONSE ACTIONS

Main Hoist House

Boiler Room - Encapsulated air cell insulative material, and mudded joints and fittings on mechanical system piping; and encapsulated insulative material on boiler units. The area is rarely accessed and the potential for damage is low.

Recommended Response Action:

Implement an O&M program until renovation or demolition projects require removal or until the hazard assessment factors change. Observe the special procedures and precautions outlined in the O&M program guide.

Exterior - Cement asbestos board siding. This material is nonfriable and in good condition with minor damage noted, but encapsulated. This material is readily accessible but has a low potential for damage.

Recommended Response Action:

Implement an O&M program until renovation or demolition projects require removal or until the hazard assessment factors change. Observe the special procedures and precautions outlined in the O&M program guide.

Gallow Frame, And Ore Bin

Ore bin - Encapsulated air cell insulative material and mudded joints and fittings on mechanical system piping. The area is rarely accessed and the potential for damage is low.

Recommended Response Action:

Implement an O&M program until a demolition project requires removal or until the hazard assessment factors change. Observe the special procedures and precautions outlined in the O&M program guide.

Gallow Frame - Encapsulated asbestos insulated electrical cables located on the west side of the gallow frame. The area is readily accessible but has a low potential for damage.

Recommended Response Action:

Implement an O&M program until demolition projects require removal or until the hazard assessment factors change. Observe the special procedures and precautions outlined in the O&M program guide.

Carpenter Shop

Interior - Encapsulated asbestos insulated electrical cables located in the interior area of the building. The area is readily accessible but has a low potential for damage.

Recommended Response Action:

Implement an O&M program until demolition projects require removal or until the hazard assessment factors change. Observe the special procedures and precautions outlined in the O&M program guide.

Exterior - Asbestos containing roofing materials. This material is generally in fair condition with damage noted. Noted was deteriorated, loose and hanging roof material. This material is accessible and has a low potential for damage.

Recommended Response Action:

Alternate 1

Implement an O&M program, making repairs where needed by removing deteriorated, loose and hanging material using procedures and precautions as outlined in the O&M program guide. After repairs have been completed, clean the surrounding area.

Alternate 2

Remove and replace the roofing material. The removal project should be designed by a qualified professional, and implemented by a qualified abatement contractor.

Dry/Change House

Interior - Encapsulated asbestos containing wall and ceiling panels. This material is nonfriable and in good condition. The material is readily accessible but has a low potential for damage.

Recommended Response Action:

Implement an O&M program until renovation or demolition projects require removal or until the hazard assessment factors change. Observe the special procedures and precautions outlined in the O&M program guide.

Mine Yard and Buildings

Crawl Spaces and Pipe Galleries - Air cell insulative material, mudded joints and fittings on mechanical system piping. The area is rarely accessed and the potential for damage is low.

Recommended Response Action:

Alternate 1

Implement an O&M program until demolition projects require removal or until the hazard assessment factors change. Asbestos warning labels should be attached to the entry barriers. Persons entering the crawl space or pipe galleries should wear respiratory protection and full body disposable suits.

Alternate 2

Remove this material in the crawlspace or pipe gallery areas. The removal project should be designed by a qualified professional, and implemented by a qualified abatement contractor.

HUMAN RESOURCES

Chen-Northern, Inc., recommends that an Asbestos Program Manager, responsible for the implementation of an Operations and Maintenance Program should be appointed, as per AHERA guidelines. The Asbestos Program Manager is responsible for maintaining all records required under this program, and for determining compliance with the requirements of the program. The Asbestos Program Manager should take the necessary steps to see that letters informing building occupants (staff) of the presence of asbestos containing materials are sent and that it describes the location of the material or where the information regarding the location of the material can be found. Information regarding the program is available at his office.

The Asbestos Program Manager should receive a minimum of sixteen hours of training directly relevant to his duties under this program, consisting of basic knowledge of:

Health effects of asbestos

Detection, identification and assessment of ACM

Options of controlling ACBM

Asbestos management programs

Relevant federal and state regulations concerning asbestos

Training should be provided by a qualified, accredited training agency, and records and certificates of such training maintained in an Asbestos Operations and Maintenance file.

The Asbestos Program Manager will ensure that all members of the maintenance and custodial staff who may work in a building that contains ACBM receive awareness training of at least two hours, whether or not they are required to work with ACBM. Training will include at least the following:

Information regarding asbestos and its various forms and uses

Information on the health effects associated with asbestos exposure

Locations of ACBM identified throughout the building in which they work.

Recognitions of damage, deterioration and delamination of ACBM

Name and telephone number of the Asbestos Program Manager

All maintenance workers who will conduct any activities that will result in the disturbance of asbestos containing materials should receive additional training of at least fourteen (14) hours to include at least:

Descriptions of the proper methods of handling ACBM

Descriptions of prohibited activities where asbestos containing materials are involved, such as:

Not to drill holes in asbestos containing materials, including cement asbestos board or vinyl asbestos tiles.

Not to hang plants or pictures on structures covered with asbestos containing materials.

Not to sand asbestos containing floor tile, cement-asbestos board, or chalkboards

Not to use an ordinary vacuum to clean up asbestos containing debris

Not to remove ceiling tiles or light fixtures below asbestos containing materials without wearing the proper respiratory protection, clearing the area of other people, and observing asbestos removal waste disposal procedures.

Not to remove ventilation system filters dry

Not to shake ventilation system filters

Descriptions of methods of small scale, short duration removal procedures for maintenance activities.

APPENDIX E

OPERATIONS AND MAINTENANCE PROGRAM

OPERATIONS AND MAINTENANCE PROGRAM

OVERVIEW

The inspection report for this facility identifies several homogeneous areas of asbestos containing materials (ACBM) which will remain in the buildings after any response actions are completed. An inventory and location of these materials is contained on the floor plan drawings for each building. Based on AHERA criteria, the following O&M program addresses each type of ACBM found in the building.

Pipe, boiler and thermal insulation

Miscellaneous materials including cement asbestos board, roofing materials, and electrical cables

Although all of these types of materials may not be present in the building, the procedures are applicable to any good work practices involving asbestos containing materials.

The O&M program objectives are to:

Clean up asbestos fibers previously released.

Prevent future release by minimizing ACBM disturbance or damage.

Monitor the condition of the ACBM.

The program should continue until all ACBM is eventually removed from the building or until the building is demolished.

The O&M program elements include:

Alerting workers and building occupants to the location of ACBM.

Training of custodial and maintenance personnel in proper cleaning and maintenance methods.

Initial and periodic cleaning using special methods (for friable surfacing materials and pipe and boiler insulation).

Establishment of a process that minimizes disturbance and prevents fiber release during building repairs and renovations.

Periodic reinspection of areas with ACM.

HUMAN RESOURCES

The Asbestos Program Manager is responsible for the implementation of this program. The Asbestos Program Manager is responsible for maintaining all records required under this program, and for determining compliance with the requirements of the program. Information regarding the program is available at his office.

The Asbestos Program Manager has/will receive(d) sixteen hours of training directly relevant to his duties under this program and consists of basic knowledge of:

- Health effects of asbestos
- Detection, identification and assessment of ACM
- Options for controlling ACBM
- Asbestos management programs
- Relevant federal and state regulations concerning asbestos

Training will be provided by a qualified training agency, and records and certificates of such training are maintained in the Asbestos Operations and Maintenance file.

The Asbestos Program Manager will ensure that all members of the maintenance and custodial staff who may work in a building that contains ACBM receive awareness training of at least two hours, whether or not they are required to work with ACBM. Training will include at least the following:

- Information regarding asbestos and its various forms and uses
- Information on the health effects associated with asbestos exposure
- Locations of ACBM identified throughout each building in which they work
- Recognition of damage, deterioration and delamination of ACBM
- Name and telephone number of the Asbestos Program Manager

All maintenance workers who will conduct any activities that will result in the disturbance of asbestos containing materials will receive additional training of at least fourteen (14) hours to include at least:

- Descriptions of the proper methods of handling ACBM
- Descriptions of prohibited activities where asbestos containing materials are involved, such as:
    - Not to drill holes in asbestos containing materials, including cement asbestos board or vinyl asbestos tiles
    - Not to hang plants or pictures, or drive nails or screws into materials containing asbestos or which are covered with asbestos, or install curtains, drapes, or dividers which may damage this material.
    - Not to sand asbestos containing floor tile or cement asbestos boards.
    - Not to damage asbestos containing materials while moving furniture or other objects.

Not to dust floors, ceilings, moldings or other surfaces in asbestos-contaminated environments with a dry brush or sweep with a dry broom.

Not to use an ordinary vacuum to clean up asbestos-containing debris.

Not to remove ceiling tiles below asbestos containing materials without wearing the proper respiratory protection, clearing the area of other people, and observing asbestos removal waste disposal procedures.

Not to remove ventilation system filters dry.

Not to shake ventilation system filters.

Information on the use of respiratory protection as outlined herein and in the EPA/NIOSH "Guide to Respiratory Protection for the Asbestos Abatement Industry", September, 1986 [EPA 560/OPTS-86-001], and other personal protection measures.

Proper methods of cleaning ACBM for fiber release episodes or maintenance activities.

Hands on training in the use of respiratory protection, other personal protection measures, and good work practices.

Procedures to be followed when implementing operations and maintenance activities, to protect building occupants.

Initial training, described above, should be performed by an outside professional, qualified to provide the training. Subsequent training for new employees should be conducted within 30 days after commencement of employment, by the Asbestos Program Manager. Records of training received, certificates if issued, medical surveillance records, and all other pertinent information, should be submitted to the Asbestos Program Manager and maintained in the Asbestos Program file.

WARNING LABELS

Warning labels will be affixed adjacent to all asbestos containing thermal insulation, or on other asbestos containing materials where listed below. The warning labels will read, in print which is readily visible because of large size and bright color as follows:

CAUTION: ASBESTOS. HAZARDOUS.
DO NOT DISTURB WITHOUT PROPER
TRAINING AND EQUIPMENT.

All labels will be prominently displayed in readily visible locations and will remain posted until the ACBM is removed from the following areas:

Boiler rooms at boiler, breeching and tank covers.

On or near asbestos containing pipe coverings or fittings and joints in at least 2 locations in the boiler room(s).

At or on entrances to any pipe tunnels which have ACM thermal insulation.

On or nearby ACM thermal insulation (pipe covering, fittings or joints) in the ore bin room.

On or nearby ACM wall and ceiling panels in the dry/change house.

CLEANING

All areas of the building where friable ACBM, damaged or significantly, damaged thermal system ACBM are present, will be cleaned at least once after the completion of the inspection, and after any O&M activities or repairs, according to the following procedures:

HEPA vacuum or steam clean any carpets

HEPA vacuum or wet clean all other floors and all other horizontal surfaces.

Dispose of all debris, filters, mopheads and cloths in sealed, leak-tight containers.

Areas to be cleaned, initially are:

Boiler rooms after repairs are made

Horizontal surfaces in rooms with fireproofing above

PERIODIC SURVEILLANCE

At least once every six (6) months, after the management plan is in effect, the Asbestos Program Manager, or a trained maintenance person, will conduct a routine visual surveillance of each building containing ACBM. The results of the surveillance will be recorded on a reporting data sheet for the Asbestos Program file and will include the following:

Identification of each space or homogeneous area of ACBM shown on the drawings

Date of surveillance

Name and signature of person performing surveillance

Change in condition of the material from previous inspection

RESPIRATORY PROTECTION PROGRAM

A respiratory protection program is one of the most important components of the operations and maintenance plan. A properly functioning and properly used respirator is one part of a safety and health program for workers involved in asbestos activities. Respiratory protection is required by OSHA, EPA, and often the state for asbestos workers. There are seven components of the program:

Medical examination requirements

Responsibility and equipment

Use and care of respirators

Work area surveillance

Worker training

Program evaluation

Record keeping

Medical Examination Requirements

The following medical procedures must be conducted according to OSHA and EPA worker protection rule:

Initial - an initial examination must be given prior to assignment to an asbestos job requiring negative pressure respirators, or anytime a worker is exposed to a level of asbestos above the action level for a period of 30 days or more during a year.

Annual - examinations must be repeated annually.

The examinations must include:

a chest x-ray administered at the discretion of the physician

pulmonary function tests

medical and work history, and standardized questionnaire regarding any respiratory diseases and existing conditions that may be aggravated by the physical demands of the job.

the chest x-rays must be reviewed by a qualified physician.

Complete and accurate medical records must be maintained for at least the duration of employment plus 30 years. Indefinite retention is recommended.

Records must be provided to the employees upon request.

Responsibility and Equipment

The building owner is responsible for the establishment and maintenance of the respiratory protection program. The Asbestos Program Manager has overall responsibility for the program. Employees must use only respirators issued or approved by the program manager. The employees must use the respirators in accordance with the training received. Employees are required to guard against damage to the respirators and to report any malfunction to their supervisors.

Respirators meeting the minimum protection requirements are required. Respirators with higher levels of protection may be used. When air purifying devices are used, only HEPA filters are allowed. Respirators can be classified into the following categories:

Air-purifying:

These function by filtering air before it is breathed by the worker.

HEPA filters are required.

These are made in half and full face piece types. They are available in small, medium, and large.

Prior to issuing this respirator type, the respirator must be qualitatively fit tested with irritant smoke.

Powered-air Respirators:

This type purifies air using filters before it reaches the breathing zone of the worker.

When properly operating, the respirator maintains positive pressure due to the powering of air by use of a battery pack and motor.

Air-supplied Respirator:

These provide fresh air to the worker, not filtered air.

This is either a continuous flow of air type of respirator or a pressure demand for air type of respirator.

Grade D air must be supplied along with these respirators.

Self-contained Breathing Apparatus:

This type provides air from a pressurized tank which is worn on the back.

These are not recommended for routine work, only for emergency escape.

Use and Care of Respirators

Adequate protection must be worn:

- when working with ACM
- when working in posted areas
- when working on posted materials
- during all cleaning operations of ACM

Procedures should be developed for the use of respiratory equipment listed above. These procedures should include:

- instructions for donning, fit testing and doffing the respirators
- information on the limitations of the respiratory equipment
- information on the cleaning, maintenance and storage of respiratory equipment
- references in 40 CFR 763 Appendix C

Worker Training

Annually in addition to worker training, supervisors are trained in:

- basic respirator protection practices
- selection and use of respirators
- nature and extent of the hazards to which workers are exposed
- the structure and operation of the respiratory protection program
- the legal and medical requirements pertinent to the use of respirators.

Annually, the workers are trained in:

- the nature or extent of inhalation hazards of asbestos
- an accurate account of what may happen if the respirators are not worn correctly
- an explanation of why respirators are necessary
- a discussion of why these respirators are the proper types for the job
- a discussion of the capabilities and limitations of respirators

frequent supervision to assure that the respirator continues to be used properly and to provide an opportunity to:

handle respirators

have a respirator properly fit test

wear the respirator in normal air

wear the respirator in test air

Program Evaluation

Regular inspections and supervision by the asbestos program manager needs to be conducted to make sure this program is followed and respirators are used properly.

Recordkeeping

Medical records, training records and fit test records need to be kept for the extent of employment plus 30 years, if not longer. Indefinite retention of records is recommended.

OPERATIONS AND MAINTENANCE ACTIVITIES

For any maintenance or abatement activities, other than Small-Scale, Short Duration activities, where friable ACBM will be disturbed, the plans and specifications should be prepared by an accredited project designer and the abatement done by an accredited contractor.

Whenever an O&M activity disturbs or is likely to disturb friable ACBM, the program manager will protect building occupants by enforcing the following procedures:

Restrict entry into the area by persons other than those necessary to perform the O&M action.

Post signs to prevent entry into the area by unauthorized persons.

Shut off or temporarily modify the air-handling system and restrict other sources of air movement.

Use work practices described herein, or other controls to inhibit the spread of any released fibers.

Clean all fixtures or other components in the immediate work area.

Seal the asbestos debris and other cleaning materials in a leak-tight container and dispose of it properly.

Fiber Release Episodes

Minor fiber release episode. The Asbestos Program Manager will ensure that the procedures described below are followed in the event of a minor fiber release episode (i.e., the falling or dislodging of 3 square or linear feet or less of friable ACBM):

Thoroughly saturate the debris using wet methods.

Clean the area, as described in this manual.

Place the asbestos debris in a sealed, leak-tight container.

Repair the area of damaged ACM with materials such as asbestos-free spackling, plaster, cement, or insulation, or seal with latex paint or an encapsulant, or immediately have the appropriate response action implemented.

Major fiber release episode. The Asbestos Program Manager will ensure that the procedures described below are followed in the event of a major fiber release episode (i.e., the falling or dislodging of more than 3 square or linear feet of friable ACBM):

Restrict entry into the area and post signs to prevent entry into the area by persons other than those necessary to perform the response action.

Shut off or temporarily modify the air-handling system to prevent the distribution of fibers to other areas in the building.

The response action for any major fiber release episode will be designed by persons accredited to design response actions and conducted by persons accredited to conduct response actions.

Work Practices and Engineering Controls

For the purposes of this document small-scale, short-duration maintenance activities are tasks such as, but not limited to:

Removal of asbestos-containing insulation on pipes.

Removal of small quantities of asbestos-containing insulation on beams or above ceilings.

Replacement of an asbestos-containing gasket on a valve.

Removal of a small section of dry wall.

Installation of electrical conduits through or proximate to asbestos-containing materials

Small-scale, short-duration maintenance activities can be further defined, for the purposes of this document by the following considerations:

Removal of small quantities of asbestos-containing materials (ACM) only if required in the performance of another maintenance activity not intended as asbestos abatement.

Removal of asbestos-containing thermal system insulation not to exceed amounts greater than those which can be contained in a single glove bag.

Minor repairs to damaged thermal system insulation which do not require removal.

Repairs to a piece of asbestos-containing wallboard.

Repairs, involving encapsulation, enclosure or removal, to small amounts of friable asbestos-containing material only if required in the performance of emergency or routine maintenance activity and not intended solely as asbestos abatement. Such work may not exceed amounts greater than those which can be contained in a single prefabricated minienclosure. Such an enclosure shall conform spatially and geometrically to the localized work area, in order to perform its intended containment function.

Several controls and work practices, used either singly or in combination, can be employed effectively to reduce asbestos exposures during small maintenance and renovation operations. These include wet methods, use of glove bags, minienclosure or maintenance programs.

Preparation of the Area Before Renovation or Maintenance Activities

The first step in preparing to perform a small-scale, short-duration asbestos renovation or maintenance task, regardless of the abatement method that will be used, is the removal from the work area of all objects that are movable to protect them from asbestos contamination. Objects that cannot be removed must be covered completely with 6-mil-thick polyethylene plastic sheeting before the task begins. If objects have already been contaminated, they should be thoroughly cleaned with a High Efficiency Particulate Air (HEPA) filtered vacuum or be wet-wiped before they are removed from the work area or completely encased in the plastic.

Wet methods. Whenever feasible, and regardless of the abatement method to be used (e.g., removal, enclosure, use of glove bags), wet methods should be used during small-scale, short-duration maintenance and renovation activities that involve disturbing asbestos-containing materials. Handling asbestos materials wet is one of the most reliable methods of ensuring that asbestos fibers do not become airborne, and this practice should therefore be used whenever feasible. Wet methods can be used in the great majority of workplace situations. Only in cases where asbestos work must be performed on live electrical equipment, on live steam lines, or in other areas where water will seriously damage materials or equipment may dry removal be performed. Amended water or another wetting agent should be applied by means of an airless sprayer to minimize the extent to which the asbestos-containing material is disturbed.

Asbestos-containing material should be wetted from the initiation of the maintenance or renovation operation and wetting agents should be used continually throughout the work period to ensure that any dry asbestos-containing material exposed in the course of the work is wet and remains wet until final disposal.

Removal of Small Amount of Asbestos-Containing Materials

Several methods can be used to remove small amounts of asbestos-containing materials during small-scale, short duration renovation or maintenance tasks. These include the use of glove bags, the removal of an entire asbestos-covered pipe board or structure. The procedures to be used for these operations are described in the following sections.

Glove Bags

OSHA found that the use of glove bags to enclose the work area during small-scale, short-duration maintenance or renovation activities will result in employee exposure to asbestos that are below the rule's action level 0.1 fibers per cubic centimeter. This document provides requirements for glove-bag procedures to be followed by employers wishing to avail themselves of the rule's exemption for each activity. OSHA has determined that the use of these procedures will reduce the 8-hour time weighted average (TWA) exposure of employees involved in these work operations to acceptable levels.

Glove Bag Installation

Glove bags are approximately 40-inch-wide by 64-inch-long bags fitted with arms through which the work can be performed. When properly installed and used, they permit workers to remain completely isolated from the asbestos material removed or replaced inside the bag. Glove bags can thus provide a flexible, easily installed, and quickly dismantled temporary small work area enclosure that is ideal for small-scale asbestos renovation or maintenance jobs. These bags are single-use control devices that are disposed of at the end of each job. The bags are made of transparent 6-mil-thick polyethylene plastic with areas of Tyvek material (the same material used to make the disposal protective suits used in major asbestos removal, renovation, and demolition operations and in protective gloves). Glove bags are readily available from safety supply stores or specialty asbestos removal supply houses. Glove bags come prelabeled with the asbestos warning label prescribed by OSHA and EPA for bags used to dispose of asbestos waste.

Glove Bag Equipment and Supplies

Supplies and materials that are necessary to use glove bags effectively include:

Tape to seal glove bag to the area from which asbestos is to be removed.

Amended water or other wetting agents.

An airless sprayer for the application of the wetting agent.

Bridging encapsulant (a paste-like substance for coating asbestos) to seal the rough edges of any asbestos-containing materials that remain within the glove bag at the points of attachment after the rest of the asbestos has been removed.

Tools such as razor knives, nips, and wire brushes (or other tools suitable for cutting wires, etc.).

A HEPA filter-equipped vacuum for evacuating the glove bag (to minimize the release of asbestos fibers) during removal of the bag from the work area and for cleaning any material that may have escaped during the installation of the glove bag.

HEPA-equipped dual-cartridge or more protective respirators for use by the employees involved in the removal of asbestos with the glove bag.

Glove Bag Work Practices

The proper use of glove bags requires the following steps:

Glove bags must be installed so that they completely cover the pipe or other structure where asbestos work is to be done. Glove bags are installed by cutting the sides of the glove bag to fit the size of the pipe from which asbestos is to be removed. The glove bag is attached to the pipe by folding the open edges together and securely sealing them with tape. All openings in the glove bag must be sealed with duct tape or equivalent material. The bottom seam of the glove bag must also be sealed with duct tape or equivalent to prevent any leakage from the bag that may result from a defect in the bottom seam.

The employee who is performing the asbestos removal with the glove bag must don at least a half mask dual-cartridge HEPA-equipped respirator; respirators should be worn by employees who are in close contact with the glove bag and who may thus be exposed as a result of small gaps in the seams of the bag or holes punched through the bag by a razor knife or a piece of wire mesh.

The removed asbestos material from the pipe or other surface that has fallen into the enclosed bag must be thoroughly wetted with a wetting agent (applied with an airless sprayer through the precut port provided in most gloves bags or applied through a small hole in the bag).

Once the asbestos material has been thoroughly wetted, it can be removed from the pipe, beam, or other surface. The choice of tool to remove the asbestos-containing material depends on the type of material to be removed. Asbestos-containing materials are generally covered with painted canvas and/or wire mesh. Painted canvas can be cut with a razor knife and peeled away from the asbestos-containing material underneath. Once the canvas has been peeled away, the asbestos-containing material underneath may be dry, in which case it should be resprayed with a wetting agent to ensure that it generates

as little dust as possible when removed. If the asbestos-containing material is covered with wire mesh, the mesh should be cut with nips, tin snips, or other appropriate tool and removed.

A wetting agent must then be used to spray any layer of dry material that is exposed beneath the mesh, the surface of the stripped underlying structure, and the inside of the glove bag.

After removal of the layer of asbestos-containing material, the pipe or surface from which asbestos has been removed must be thoroughly cleaned with a wire brush and wet-wiped with a wetting agent until no traces of the asbestos-containing material can be seen.

Any asbestos-containing insulation edges that have been exposed as a result of the removal or maintenance activity must be encapsulated with bridging encapsulant to ensure that the edges do not release asbestos fibers to the atmosphere after the glove bag has been removed.

When the asbestos removal and encapsulation have been completed, a vacuum hose from a HEPA filtered vacuum must be inserted into the glove bag through the port to remove any air in the bag that may contain asbestos fibers. When the air has been removed from the bag, the bag should be squeezed tightly (as close to the top as possible), twisted, and sealed with tape, to keep the asbestos materials safely in the bottom of the bag. The HEPA vacuum can then be removed from the bag and the glove bag itself can be removed from the work area to be disposed of properly.

Pipe Galleries

Access to pipe galleries will be restricted to only those persons, who have received training and who are authorized by the Asbestos Program Manager. Any activities in these galleries, - maintenance, repair debris removal, surveillance -- will be conducted by personnel wearing personal protective gear consisting of at least respiratory protection and full body disposal suits, and decontamination upon exiting the gallery.

Removal of debris, will be by wet methods and if a dirt floor, will include removing and bagging at least two inches of soil from beneath the debris. The non-soil surfaces of the tunnel in the area of the debris will be cleaned as described in this manual, using HEPA vacuum and wet cleaning.

Cement Asbestos Board

Maintenance operations involving cement asbestos board (including chalkboards) is limited to occasional drilling of holes through the material for attachment of equipment. When drilling holes through the board, the area being drilled will be kept continuously wet using a wetting agent or foaming cleanser.

A HEPA vacuum will be used to maintain a clean air environment adjacent to the drilling. Drill operators or personnel involved in this work will wear protective disposable body suits and respiratory protection equipment. The area will be cleaned and materials disposed of in accordance with the standard procedures

contained in this document.

Alterations of these materials by sawing, cutting or grinding will not be performed. Any renovation or alterations proposed for these materials will be accomplished by removing the cement asbestos board and replacing it with non-asbestos board. Removal of the cement asbestos board will be performed by taking all attachment devices off of the board and removing the entire board as a unit. If attachment devices are screws or bolts, removal should proceed using the precautions outlined above for drilling holes. The area and equipment should be cleaned as above and the board properly disposed of.

RECORDKEEPING

Records required under this plan should be maintained in a centralized location in the administrative office, as part of the management plan. For each homogeneous area where all ACBM has been removed the program manager should ensure that such records are retained for at least 3 years.

> For preventive measure and response action taken for friable and nonfriable ACBM and friable and nonfriable suspected ACBM assumed to be ACM, the district will provide:
>
>> A detailed written description of the measure or action, including methods used, the location where the measure, the location where the measure or action, start and completion dates of work, names and addresses of all contractors involved, and if applicable, their State of accreditation, and accreditation numbers, and if ACBM is removed, the name and location of storage or disposal site of the ACM.
>>
>> The name and signature of any person collecting any air sample required to be collected at the completion of certain response actions, the locations where samples were collected, date of collection, the name and address of the laboratory analyzing the samples, the date of analysis, the results of the analysis, the method of analysis, the name and signature of the person performing the analysis, and a statement that the laboratory meets the applicable requires of AHERA.
>
> For each person required to be trained, the program manager will provide the person's name and job title, the date that training was completed by that person, the location of the training, and the number of hours completed in such training.
>
> For each time that periodic surveillance is performed, the program manager will record the name of each person performing the surveillance, the date of the surveillance, and any changes in the conditions of the materials.
>
> For each time that special cleaning of friable ACBM areas is performed, the program manager will record the name of each person performing the cleaning, the date of such cleaning, the locations cleaned, and the methods used to perform such cleaning.

For each time that operations and maintenance activities are performed, the program manager will record the name of each person performing the activity, the start and completion dates of the locations where such activity occurred, a description of the activity including preventive measures used, and if ACBM is removed, the name and location of storage or disposal site of the ACM.

For each time that major asbestos activity is performed, the program manager will provide the name and signature of each person performing the activity, the start and completion dates of the activity, the locations where such activity occurred, a description of the activity including preventive measures used, and if ACBM is removed, the name and location of storage or disposal site of the ACM.

For each fiber release episode the program manager will provide the date and location of the episode, the method of repair, preventive measures or response action taken, the name of each person performing the work, and if ACBM is removed, the name and location of storage or disposal site of the ACM.

SUGGESTED LIST OF REFERENCE DOCUMENTS

40 CFR Part 61 NESHAPS - National Emission Standards for Hazardous Air Pollutants

40 CFR Part 763 Subpart E AHERA - Asbestos Hazard Emergency Response Act

40 CFR Part 763 EPA Worker Protection Rule

29 CFR Part 1926.58 OSHA Construction Standard

EPA/NIOSH Guide to Respiratory Protection for the Asbestos Abatement Industry, September 1986 (EPA-560-OPTS-86-001)

EPA Guidance for Controlling Asbestos-Containing Materials in Buildings (EPA-560/5-85-024)

GLOSSARY

ACBM -- asbestos containing building materials.

acoustical material -- material often containing asbestos, perilite, vermiculite, etc. applied to ceilings or walls to dampen sound.

ACM -- asbestos containing material

action level -- an OSHA standard for asbestos exposure. Action level means an airborne concentration of asbestos above which an employer must institute certain provisions (see 29 CFR 1926.58). The Action Level is 0.1 f/cc of air as an 8-hour time-weighted average.

adequately wetted -- sufficiently mixed or coated with water or an aqueous solution to prevent dust emissions.

AHERA -- Asbestos Hazard Emergency Response Act of 1986.

air plenum -- space above a ceiling used for the circulation of air through a building.

air samples -- samples of airborne fibers taken by drawing air through a filter to trap the airborne fibers. Analyzed by PCM or electron microscopy.

amosite -- brown asbestos, brittle fibers, high resistance to heat.

APR -- air purifying respirator.

asbestos -- a term used to define a group of naturally occurring minerals composed of hydrated silicates crystalline in structure, occurring as parallel bundles of fibers, called "fibrils".

Asbestos Management Plan -- a document to assist in administering the asbestos programs in a facility.

asbestosis -- a chronic disease during which the lungs become scarred as the result of a biological reaction to the inhalation of asbestos fibers.

ASHAA -- Asbestos School Hazard Abatement Act of 1984.

CFR -- Code of Federal Regulations.

chrysotile -- white asbestos, fine silky fibers, flexible with high tensile strength.

competent person -- a competent person is one who is capable of identifying existing asbestos hazards in the workplace and who has the authority to take corrective action. Duties include establishing the negative-pressure enclosure, controlling entry and exit of all employees, etc. The competent person must be trained in all aspects of asbestos abatement and the contents of the OSHA asbestos standard.

condition factors -- describe the physical condition ACM.

control options -- methods of reducing or eliminating the exposure potential of asbestos-containing materials e.g. removal, enclosure, encapsulation, operations and maintenance.

corrugated paper -- a type of thermal insulation characterized by brown "cardboard box" type corrugated paper wrapped around pipes or applied in sheets to boilers and tanks. Usually contains asbestos woven in with paper.

corrective action -- an activity undertaken to reduce or eliminate the exposure potential of ACM: enclosure, encapsulation, removal or operations and maintenance.

crawl space -- the area of the building below the ground floor, but above the ground, often only a few feet high.

demolition -- the wrecking or taking out of any load-supporting structural member of a facility together with any related handling operations.

doffing -- the process of taking off personal protective equipment.

donning -- the process of putting on personal protective equipment.

emergency renovation -- a renovation operation that was not planned, but results from a sudden, unexpected event. This term includes operations necessitated by nonroutine failures of equipment.

encapsulation -- treatment of ACM with a material that surrounds or embeds the asbestos fibers in an adhesive matrix to prevent the release of fibers as the encapsulant creates a membrane over the surface (bridging encapsulant) or penetrates the material and binds its components together (penetrating encapsulant).

enclosure -- construction of an airtight, impermeable, permanent barrier around ACM to control the release of fibers into the air.

EPA -- Environmental Protection Agency. The agency charged with implementing AHERA.

exposure -- a quantification of the population at risk and the magnitude and duration of their exposure.

f/cc -- fibers per cubic centimeter. A measurement to express the level of fibers in the air.

facility component -- any pipe, duct, boiler, tank, reactor, turbine, or furnace at or in a facility; or any structural member of a facility.

fiber release episode -- any uncontrolled or unintentional disturbance of ACM resulting in visible emissions.

fibrils -- a small bundle of individual fibers.

fireproofing -- material sprayed onto building structural members to prevent or retard their loss of strength in case fire. Often contains asbestos.

fit-testing -- the act of insuring a respirator has a proper seal to the wearers face and works properly.

friable -- easily reduced to powder by hand pressure.

Friable Asbestos Material -- any material that contains more than 1 percent asbestos by weight and that can be crumbled, pulverized, or reduced to powder, when dry, by hand pressure.

functional space -- a room or area designated by a person accredited to prepare management plans.

glove bag -- a device used to remove small sections of asbestos.

hazard -- a hazard is a circumstance, mechanism, or event which has the potential to create injury.

HEPA -- High Efficiency Particulate Air.

homogeneous area -- an area of asbestos-containing material where the material is consistent in texture, color, and age.

inadvertent contamination -- the disturbance of asbestos containing products not caused intentionally by the parties involved in the project.

inspection -- the process of locating ACM, determining its condition, and reporting the results.

latency -- period before the presence of a disease is manifested by symptoms.

LEA -- Local Education Agency, generally a school district.

liability -- legally bound or obligated.

magnesia -- a type of thermal insulation, generally white fibrous material performed into "   " shaped pieces or as bricks, often contains asbestos.

mechanical area -- an area of building not normally accessed by the public containing air handling, air conditioners, heat exchanges, tanks, pipes, or other mechanical equipment.

mechanical system -- the heating, ventilation, air conditioning and plumbing components of a facility.

Medical Surveillance Program -- a program to insure workers are physically and psychologically able to wear a respirator and perform asbestos activities.

miscellaneous material -- interior building material on structural components, structural members or fixtures, that does not include thermal or surfacing material.

mudded joint fittings -- plaster compound packed onto pipe joints and around valves, pumps, elbows, tees for thermal insulation. Often contains asbestos.

negative air -- a process by which air is continually removed from the work area to keep the air pressure in the work area less than the air pressure outside the work area. A registered trademark.

NESHAPS -- National Emission Standards for Hazardous Air Pollutants.

NIOSH -- National Institute of Occupational Safety and Health. The agency who sets standards for respirators and other protective equipment.

O & M -- Operations and Maintenance.

OSHA -- Occupational Safety and Health Administration. The agency responsible for protecting worker health and safety.

outside air -- the air outside buildings and structures.

packing -- material applied to tanks, boilers, ducts, air handlers for thermal insulation. Often contains asbestos.

PARP -- Powered Air Purifying Respirator.

PCM -- Phase Contract Microscopy. A method used to analyze air samples for the presence of fibers.

PEL -- Permissible Exposure Limit, a level of airborne asbestos above which no employee shall be exposed. The PEL is 0.2 f/cc of air as an 8-hour time-weighted average (see 29 CFR 1926.58).

planned renovation -- a renovation operation, or a number of such operations, in which the amount of friable asbestos material that will be removed or stripped within a given period of time can be predicted. Individual nonscheduled operations are included if a number of such operations can be predicted to occur during a given period of time based on operating experience.

PLM -- Polarized Light Microscopy. A method used to analyze bulk samples for the presence of asbestos.

regulated areas -- areas that exceed or may exceed airborne concentrations beyond permissible exposure limits of 0.2 f/cc).

reinspection -- a periodic reevaluation of the ACM's over a regular time period.

removal -- taking out or stripping of substantially all ACM from a damage area, functional space, or homogeneous area.

renovation -- altering in any way one or more facility components. Operations in which load-supporting structural members are wrecked or taken out are excluded.

repair -- returning damaged ACM to an undamaged condition or to an intact state so as to contain fiber release.

Respiratory Protection Program -- a program to provide the information, training, and equipment necessary for proper respiratory protection while working with ACM.

response action -- an organized plan for taking corrective action according to governmental guidelines.

routine maintenance area -- an area, such as a boiler room or mechanical room, not normally frequented by the public in which maintenance employees or contract workers regularly conduct maintenance activities.

salient -- a limited area of significantly different material condition within a homogeneous area.

SEM -- Scanning Electron Microscopy. A method to analyze air samples for the presence of asbestos.

service personnel -- people engaged in repair, maintenance, and/or custodial activities.

structural system -- the system of beams, walls, piers and such that supports a building.

surfacing material -- material in a building that is either sprayed-on, trowled-on, or otherwise applied to surfaces such as acoustical plaster on ceilings and fireproofing material on structural members, or other materials used for acoustical, fireproofing or other purposes. Often contains asbestos.

symbols -- drawn figures which represent real objects. Symbols are the "shorthand" of architectural and mechanical drawings.

TEM -- Transmission Electron Microscopy. A method to analyze air samples or bulk samples for the presence of asbestos.

thermal system insulation -- material in a building applied to pipes, fittings, boilers, .breeching, tanks, ducts, or other interior mechanical components to prevent heat loss or gain, or water condensation, or for any other purpose.

TSCA -- Toxic Substances Control Act.

tradesmen -- people engaged in a construction trade, i.e. electricians, plumbers, carpenters, painters, etc.

TWA -- Time Weighted Average. An average concentration of material over a set period of time.

"Tyvek" -- brand name for a disposable clothing worn during asbestos work.

visible emissions -- any emissions containing particulate asbestos material that are visually detectable without the aid of instruments.

wet cleaning -- a cleaning technique where the material is kept wet and/or wet towels or mops are used to reduce the potential for material becoming airborne.

wrapped paper -- a type of thermal insulation characterized by layers of Kraft paper wrapped around pipes. There is usually a layer of woven asbestos paper or "tar" paper imbedded with asbestos.

29 CFR 1926.28 -- OSHA Asbestos Standard for the Construction Industry.

Dear Staff Member:

Asbestos is an issue we have been dealing with for many years. To give you some background, asbestos has been used as a building material for many years. It is a naturally occurring mineral that is mined primarily in Canada, South Africa, and the U.S.S.R. Asbestos properties made it an ideal building material for insulating, sound adsorption, decorative plasters, fireproofing, and a variety of miscellaneous uses. There have been over 3,000 different products made using asbestos materials. EPA began action to limit uses of asbestos products in 1973 and most uses of asbestos products as building materials were banned in 1978.

We have recently had our facilities inspected by an accredited asbestos inspector. The inspector located, sampled, and rated the condition and hazard potential of all material in our facilities suspected of containing asbestos. The inspection and laboratory analysis records were turned over to an accredited management planner.

He has developed an asbestos management plan for our facilities which includes: this notification letter, education and training of our employees, plans and procedures designed to minimize the disturbance of the asbestos containing materials, and plans for regular surveillance of the asbestos-containing materials.

A copy of the asbestos management plan is available for your inspection in our administrative offices during regular office hours by appointment.________________, is our Asbestos Program Manager and all inquiries regarding the plan should be directed to him.

We have begun implementing the asbestos management plan. We are intent on complying with federal, state, and local regulations in this area. We plan on taking whatever steps are necessary to insure our employees and our visitors have a healthy, safe environment in which to work and enjoy the exhibits.

Sincerely,

Dear Contractor:

We are concerned about the health and safety of our building occupants and staff, and also contractors like yourself who work in our facilities. We have recently had our facilities inspected for asbestos-containing materials by Chen-Northern, Inc., an asbestos inspection consulting firm. The inspection was performed by an accredited inspector and the results were evaluated and a management plan for asbestos was developed by an accredited management planner at Chen-Northern.

We have copies of this management plan in our administrative office and our maintenance office. We require all our personnel to review the management plan before beginning work in an area that may contain asbestos-containing materials (ACM). Their review of the Plan will alert them to any ACM in the area and what work practices should be used. We now require all contractors who work in our facilities to review the Asbestos Management Plan before beginning work in our facilities and strictly follow safe work practices to avoid disturbing the ACM.

We intend to fully comply with all relevant EPA and OSHA regulations in this area and will be closely monitoring all asbestos activities. We look forward to working with you in the future to protect the health of and provide a safe working environment.

Sincerely,

APPENDIX F

DUMP RECEIPTS AND SUBMITTALS

DUMP RECEIPTS

MSI

MOUNTAIN STATES INSULATION INC.

P.O Box 8598
Missoula, Montana 59807
(406) 543-4093

ASBESTOS DISPOSAL FORM

Date: 7-30-90

Owner or Operator of Landfill JACK POMROY -

Name BUTTE SILVER BOW -

Address BUTTE MONT. 3199 GROSSON

City Butte State MT. Zip 59701

Phone: ( )

Name of Landfill ~~M~~ Butte Silver Bow

Name MOUNTAIN STATE. (ANSELMO MINE)

Address

City MISSOULA State MT Zip 59802

Phone: ( )

Hauler MCGREE TRUCKING - 723-3728 -

Approximate Volume of Asbestos Received Roofing Material -

Type of Container Asbestos In 27 CUBIC Ft — 1/2 FULL —

Asbestos Containers Labeled? X YES ___ NO ___

MSI

MOUNTAIN STATES INSULATION INC.

P.O Box 8598
Missoula, Montana 59807
(406) 543-4093

ASBESTOS DISPOSAL FORM

Date: 7-30-96

Owner or Operator of Landfill JACK POMROY -

Name

Address

City State Zip

Phone: ( )

Name of Landfill

Name Mountain State (Anselmo Mine

Address Butte Mont -

City State Zip

Phone: ( )

Hauler McGree Trucking - 723-3728

Approximate Volume of Asbestos Received 1 - 27 CUBIC YD DUMBSTER -

Type of Container Asbestos In NONE

Asbestos Containers Labeled? ~~6~~ YES ~~6~~ NO

NOTE - this Dumpster HAD NO A.C.M MATERIAL IN IT. ALL WOOD ROCK' METAL ETC.

MOUNTAIN STATES INSULATION INC.
P.O Box 8598
Missoula, Montana 59807
(406) 543-4093

ASBESTOS DISPOSAL FORM

Date: AUG 1 - 1990

Owner or Operator of Landfill Jack Pomroy -

Name Butte Silver Bow -

Address 3199 Gresson

City Butte State Mont Zip 59701

Phone: (______) ____________________

Name of Landfill Butte Silver Bow -

Name ____________________

Address ____________________

City __________ State __________ Zip __________

Phone: (____) ____________________

Hauler Mc Gree Trucking -

Approximate Volume of Asbestos Received __________

Type of Container ~~Asbestos~~ In 27- Cubic Ft

Asbestos Containers Labeled? ______ YES ______ NO ______

this Dumpster HAS NO ASBESTOS IN it ALL WOOD DIRT ect -

Wayne Dickwood

M.S.A -

Tammie Pomroy

MSI

MOUNTAIN STATES INSULATION INC.

P.O Box 8598
Missoula, Montana 59807
(406) 543-4093

ASBESTOS DISPOSAL FORM

Date: 8-8-90

$300.00

Owner or Operator of Landfill JACK POMROY -

Name BUTTE SILVER BOW -

Address 3199 GRESSON

City BUTTE State MONT Zip 59701

Phone: (406) 782-6521

Name of Landfill Butte Silver Bow

Name

Address SW Butte

City Butte State Mt. Zip 59701

Phone: (406) 782-6521

Hauler McGREE TRUCKING

Approximate Volume of Asbestos Received 100 BAGS -

Type of Container Asbestos In DOUBLE WRAPED PLASTIC LABEL BAGS —

Asbestos Containers Labeled? X YES ____ NO ____

MSI

MOUNTAIN STATES INSULATION INC.

P.O Box 8598
Missoula, Montana 59807
(406) 543-4093

ASBESTOS DISPOSAL FORM

Jack Pom
$300.00 Load

Date: Aug 9- 90
Owner or Operator of Landfill JACK POMROZ –
Name Butte Silver Bow –
Address 3199 GRESSON –
City Butte State Mont Zip 59701
Phone: (_____) 782 - 6521
Name of Landfill Butte Silver Bow
Name Jolt Excavating
Address 3199 Gregson
City Butte State Mt. Zip 59701
Phone: (____) 723 - 3928
Hauler Mc Greg Trucking –
Approximate Volume of Asbestos Received 150 –
Type of Container Asbestos In __________
Asbestos Containers Labeled? X YES _____ NO _____

ALL BAG DOUBLE BAG & TAPED
6 mil Plastic will Lettering –

MSI

MOUNTAIN STATES INSULATION INC.

P.O Box 8598
Missoula, Montana 59807
(406) 543-4093

ASBESTOS DISPOSAL FORM

Date: 8-14-90

Owner or Operator of Landfill JACK Pomroy -

Name Butte Silver Bow -

Address 3199 GREGSON

City Butte State Mont zip 59701

Phone: (406) 782 - 6521

Name of Landfill Butte Silver Bow -

Name Margaret Pomroy

Address 3199 Gregson

City Butte State Mt. zip 59701

Phone: (____) __________

Hauler McGREE Trucking

Approximate Volume of Asbestos Received 75 BAGS

Type of Container Asbestos In 27 CUBIC ft -

Asbestos Containers Labeled? X YES ____ NO ____

1- Small vessel →

MSI

MOUNTAIN STATES INSULATION INC.

P.O Box 8598
Missoula, Montana 59807
(406) 543-4093

[illegible] $300.00 Load
Aug 20, 90

ASBESTOS DISPOSAL FORM

Date: Aug 20-1990

Owner or Operator of Landfill Jack Pomroy -

Name Butte Silver Bow -

Address 3199 Greson -

City Butte State Mont Zip 59701

Phone: (______) 782-6521

Name of Landfill Butte Silver Bow

Name Jim Ercmontiz

Address 3199 Gregson

City Butte State Mt Zip 5

Phone: (____) ________________

Hauler McGree Trucking -

Approximate Volume of Asbestos Received 860 # Asbestos

Type of Container Asbestos In ________________

Asbestos Containers Labeled? X YES ______ NO ______

1 - Vessel

MSI

MOUNTAIN STATES INSULATION INC.

P.O Box 8598
Missoula, Montana 59807
(406) 543-4093

150.00 Load

ASBESTOS DISPOSAL FORM

Date: 8-22-90

Owner or Operator of Landfill JACK POMROY - Jack P Pomy

Name BUTTE SILVER BOW -

Address 3199 GRESON

City Butte State MONT Zip 59701

Phone: (_____) 782-6521

Name of Landfill Butte Silver Bow

Name Jack P Pomy

Address 3199 Gregson

City Butte State MT. Zip 59701

Phone: (____)

Hauler MC GREE TRUCKING. -

Approximate Volume of Asbestos Received

Type of Container Asbestos In DIRT - BAG -

Asbestos Containers Labeled? ✓ YES ____ NO

ALL BAG DOUBLE BAG - 6 MIL -

MOUNTAIN STATE ABATEMENT

$150.00 Load

AUG - 25 - 1990
OWNER - JACK POMROY - Jack Pomroy
NAME BUTTE LANDFILL
ADDRESS - 3199 - GRESON -
CITY - BUTTE STATE MONT ZIP - 59701
NAME - BUTTE SILVER BOW -
OWNER - Jack P Pomroy
ADDRESS 3199 Gregson
CITY - Butte MT.

HAULER - McGEE TRUCKING .

APROX VOLUME - 1/2 27 CUBIC Ft ROLL OFF -
ASBESTOS BAG - PIPE WRAPPED IN PLATIC -
ALL CONTENER LABLED AND TAGED -

SUBMITTALS

Rec'd
7/10/90

NAMES & PHONE NUMBERS

Project ANSELMO MINE Project No. MONT A/E 90-46-1C

Owner Name DEPARTMENT OF STATE LANDS

Site Address SILVERBOW County, BUTTE, MONTANA

Contractor Mountain STATES ABATEMENT

EMERGENCY PHONE NUMBERS

Fire Department 911

Police Department 911 OR 782-4224

Ambulance/EMS 911

Hospital HOSPITAL MINOR - 723-4347 — ST JAMES 782-8361

Industrial Clinic

PROJECT CONTACT NAMES AND NUMBERS

I.H. Monitor RICK FOUST 248-9161 - Chen NORTHERN

Owner Rep. JOHN KOERTH 444-2074 -

Union Rep. LARRY

Waste Hauler JACK Pilmoroy 782-6521

OSHA/STATE GEORGE FLYNN 800-332-7087

Local Government

EPA NESHAP's KEN PICHER.

Insurance Loss Control

Project Manager CHEN NORTHERN - 248-9161

Supervisor MOUNTAIN STATES ABATEMENT

Gas Company MT. POWER - 723-5421

Electric Company MT. POWER - 723-5421

Water Company BUTTE WATER - 782-2311

Other

Phone Locations 40 ft. VAN — 723-3692

Post Near Project Entrance and All Emergency Phones

FIDELITY
ENVIRONMENTAL
INSURANCE COMPANY

(Good Abatement Practices) GAP™ Program,
© 1989, Fidelity Environmental Insurance Company, Inc.
GAP Safe 3 - 2/89

MSA
MOUNTAIN STATES ABATEMENT, INC.
P. O. Box 8598
Missoula, Montana 59807
(406) 543-1093

July 11, 1990

Chen-Northern
P.O. Box 5699
Helena, MT 59604

Dept. of State Lands
1625 11th Avenue
Helena, MT 59620

Re: Anselmo Mine - Asbestos Abatement & Removal
MONT A/E 90-46-101

CONSTRUCTION SCHEDULE

1st Week

Set up 40' van for storage of supplies and office
Set up water and electric to van and central location for HEPA vac.
Post warning signs - ASBESTOS HAZARD, NO SMOKING, DON NOT ENTER
Set up temporary toilet, post emergency phone numbers, project contact name and phone number.
Set asbestos containers next to south garage.
Set up decontamination units.

2nd Week

Check employee files, hold safety meeting.
Start ACM removal in Buildings 1 through 6.
All salvaged items to be cleaned and set in lower level of Main Hoist house, after room is cleaned.
Cover asbestos tank behind office with 6 mil visqueen (will dispose of at the same time as the big water tank next to Dry House).
Start removal of ACM roof material and siding.

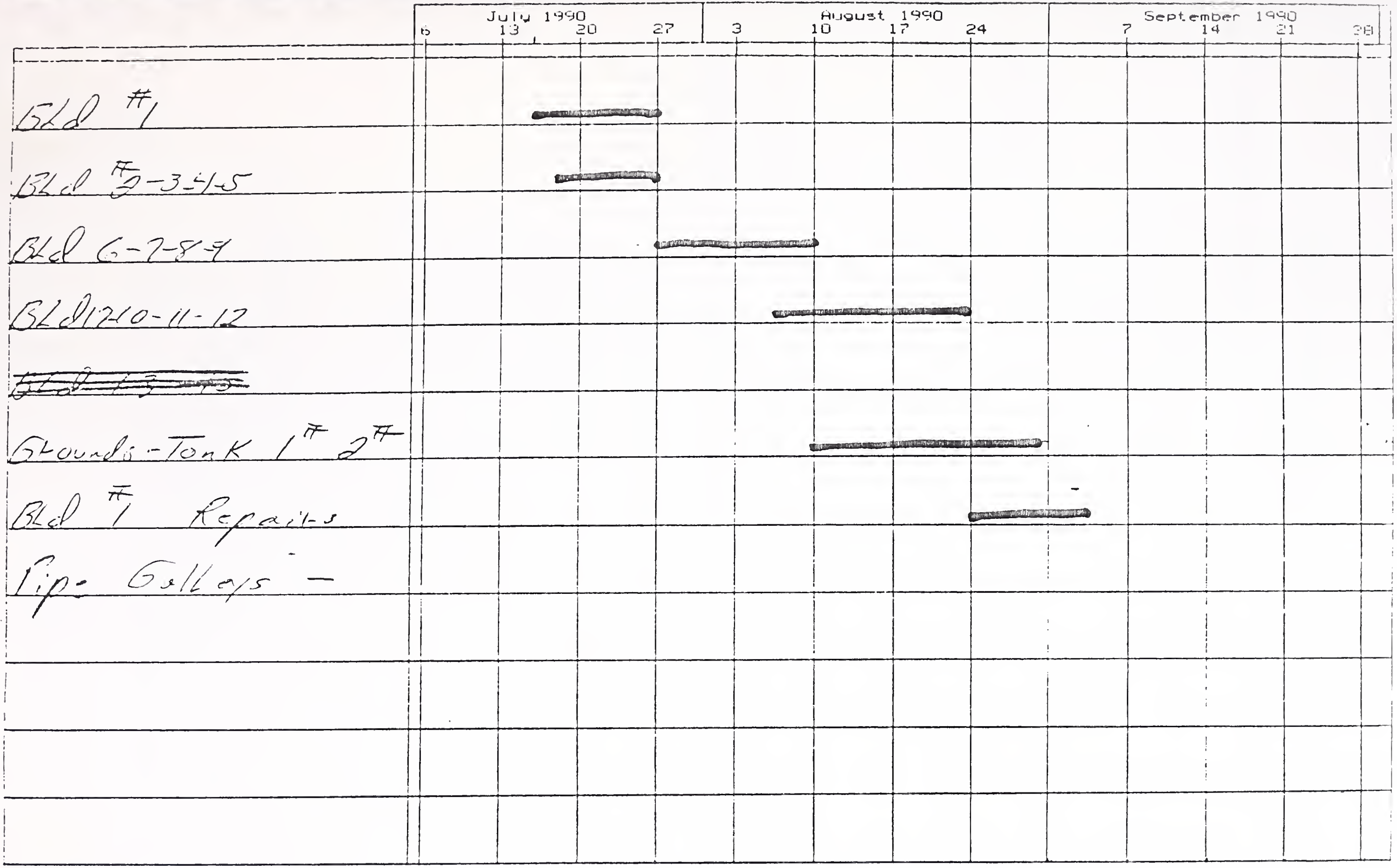
3rd & 4th Week

Continue ACM removal in Buildings 7 through 19.
Complete all asbestos removal before repairs to buildings or area cleanup starts.

5th Week

After all asbestos removal and encapsulation, boiler repairs and door locked, pipe galleries lids locked, then the general cleanup, wash down repairs will start.

ANSELMO MINE ASBESTOS REMOVAL



COMMENTS:

CNI
Rec'd
7/23/90

MOUNTAIN STATES ABATEMENT, INC.
P.O. BOX 8598
MISSOULA, MT 59807

CNF
Rec'd
7/18/90

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

ASBESTOS ABATEMENT PROJECT PERMIT

In compliance with MCA sections 75-2-501 through 75-2-514, and ARM sections 16.42.301 through 16.42.405,

Mountain States Abatement, Inc.
P.O. Box 8598
Missoula, MT 59807

is authorized to ☒ remove 490 square feet and/or 979 linear feet;

☐ encapsulate _____ square feet and/or _____ linear feet; ☐ enclose

_____ square feet and/or _____ linear feet at the following location:

Anselmo Mine

Butte, MT 59701

ID# MTP0102 Permit effective date: 7/16/90 Permit expiration date: 11/1/90

Conditions of this permit: Any change in dates for abatement must be made by telephone at least 24 hours in advance and shall be followed by written notification within 72 hours.

Must furnish this office with the following items:

1) Copy of the contract signed by the building owner

2) Copy of all air sampling data

For the Montana Department of Health and Environmental Sciences

Kenneth R Pilcher
for Adrian C. Howe, Chief
Occupational Health Bureau

Dated this 16th day of July 19 90

12/21/89

CNE
Rec'd
7/23/90

RECORD OF SAFETY MEETING

GAP
GOOD ABATEMENT PRACTICES

Project Name Alselmo Mine Project No. M

Project Address Butte MT

Owner Name

Contractor Mtn states Abatement

Date 2-23-90 Time 7:00 AM

Speaker Bob Krieg Company M.S.A.

Safety Topics Discussed: nails in boards - Mine shaft - Roofs - Asbestos - clean up - Resperator use.

Current or anticipated problems and accidents which were discussed: ~~w~~ Safety belt on steep Roofs

In Attendance:

Name	Signature
Richard L Faust	Richard L. Faust (CNE)
Bob Krieg	M.S.A.
Robert D. Russell	Robert D. Russell
Jennifer B Molino	Jennifer B Molino
Stephen C Schultz	Stephen C Schultz
Louis R. DeRosier	Louis R. DeRosier
Darryl Kroll	Darryl Kroll
RICK JOHNS	Rick Johns

Anselmo Mine Reclamation Project
Butte, Montana

On August 29, 1990 Mountain States Abatement supplied the following Keys to Chen-Northern

10 - 12036
12 - 1K066

Wayne Dewar
Mountain States Abatement
Supplied by

Chen-Northern
Received by

Anselmo Mine Reclamation Project
Butte Montana

On August 24 1990, Chon-Northern Turned over the following Keys To Mr. John Koorth of The Dept. of States Land.

10 - 1Z036
11 - 1R066
1 - Master Key (double side)
1 - AB-28
1 - Master Key (single side)

Chon-Northern

John Koerth
Dept. of States Lands

MSA

MOUNTAIN STATES ABATEMENT, INC.
P. O. Box 8598
Missoula, Montana 59807
(406) 543-4093

C-N I
rec'd
7/16/90

July 13, 1990

Chen-Northern, Inc.
P.O. Box 30615
Billings, MT 59107

Attention: Rick Foust

Re: Anselmo Mine - Asbestos Removal

Superintendent/competent persons

Robert Krieg	Certificate #MTA0104
Wayne Schwoob	Certificate #MTA0105

Please find attached personnel resumes and copies of certifications.

Robert Krieg

Robert Krieg
MOUNTAIN STATES ABATEMENT, INC.

Robert D. "Bob" **Krieg**
2602 Sycamore
Missoula, Montana 59802
(406) 543-4093
Age: 42

EDUCATION

High School Graduate 1966
Hellgate High School
Missoula, Montana

APPRENTICESHIP

1969-1974
United Association Plumbers
and Pipefitters/Local 459
Missoula,Montana
Apprenticeship Certificate State
of Montana (steamfitter)

MILITARY

Active Service 1968-1969
U.S. Army
Rank: Specialist 5
Honorable Discharge,June 20,1969

OCCUPATIONAL QUALIFICATIONS

Mechanical Construction Industry, 20 years experience as Pipefitter, Pipefitter Welder,Pipefitter Foreman, Pipefitter General Foreman, and Installation Superintendent. All these assignments have given knowledge in scheduling, planning, cost control, procurement, labor relations and estimating.

At present,owner of two construction companies. Rocky Mountain Mechanical and Insulation, which is an Industrial Contractor for Piping and Reinsulation,started in 1981 with sales over $100,000 every year and in 1988 exceeded $400,000

President and Owner of Mountain States Insulation, Inc., which was started in 1986, for the sole purpose of Asbestos Abatement for Stone Container Mill in Missoula Montana. With sales in 1987 in access of $400,000 and in 1988 exceeded the $500,000 mark. Mountain States has done abatement and encapulation at the following schools in Montana: School District #1, Hellgate High School, Sentinel High School, Choteau High School, Conrad School and Stevensville High School. Also have done abatement for several Churches in the Montana Area. The major portion of all abatement is done at Stone Container Corporation, Missoula Mill.

EXPERIENCE

1987-Present	Started the Corporation of Mountain States Insulation, Inc.,for Asbestos Abatement purpose. Asbestos Abatement Certified in 1986 for the State of Washington-Cert#3363 Asbestos Abatement Certified in 1986-1987 for Montana- Cert# 880309-01 Certification on caliberation of Gillion sample Pumps.
1981-Present	Started Rocky Mountain Mechanical and Insulation for Industrial Piping and Reinsulation.
1979-1980	General Foreman for Blount Brothers Corporation, Montgomery, Alabama and Sam Wallace Contractors, Dallas, Texas. General Foreman for Champion Intl Paper Mill, Bonner, Mt. Job included expansion of existing mill facilities, including a Tampella Fourdrinier Linerboard machine and additions to existing Washing and Screening,Stock Preparation and additive facilities.Contract value of $12 Million
1976-1979	Superintendent for JLK Construction Co. Missoula, Mt. Various mechanical maint. contracts for U.S.Plywood Corp., Bonner Mt. and Hoerner Waldorf Corp., Frenchtown,Mt. Including erection of the M&D Digester facilities for Hoerner Waldorf. Also, worked as Foreman at Champion International Saw Mill, Bonner, Mt.
1975-1976	Foreman for Peter Kiewit and Sons, Seattle, Washington, gathering station No. 2, Prudhoe Bay, Alaska
1974-1975	Foreman for Bechtel Corporation, San Francisco, California, AED Fast Flux Test Facilities, Richland, Washington
1969-1974	Served Apprenticeship under various Missoula, Montana mechanical contractors including Burgess Mechanical Co.

DEPARTMENT OF
HEALTH AND ENVIRONMENTAL SCIENCES

OCCUPATIONAL HEALTH BUREAU

STAN STEPHENS, GOVERNOR
COGSWELL BUILDING

STATE OF MONTANA

FAX # (406) 444-2606
TEL# (406) 444-3671
HELENA, MONTANA 59620

MEMORANDUM

We have received your application for certification in an asbestos-related occupation containing the correct fee. We have issued accreditation based on the documentation you sent with your application.

Your certification card is enclosed. The appropriate fee has been paid during the calendar year of 1990 issuance and renewal so there will be no additional fee due for renewal until 1991. New accreditation cards will be issued on renewal dates as you provide this office with documentation of having successfully completed the required refresher courses.

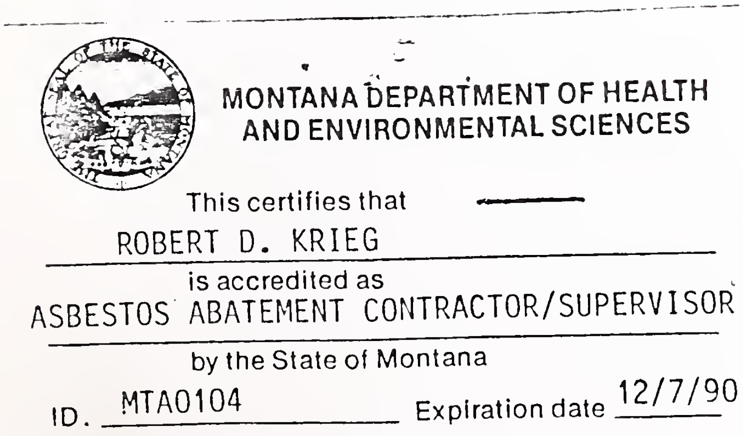
If your accreditation is termed Asbestos Abatement Contractor/Supervisor, you may perform functions as an asbestos abatement worker, asbestos abatement supervisor, or asbestos abatement contractor.

If you have further questions, feel free to contact this office.

Sincerely,

Adrian C. Howe
Chief

ACH: C



MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES

This certifies that
ROBERT D. KRIEG
is accredited as
ASBESTOS ABATEMENT CONTRACTOR/SUPERVISOR
by the State of Montana

ID. MTA0104 Expiration date 12/7/90

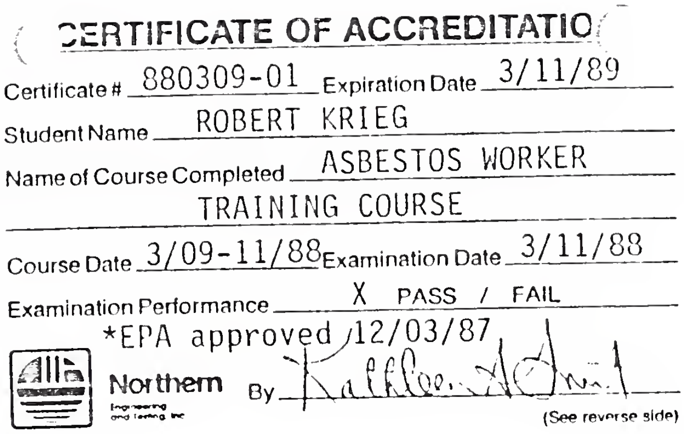
EPA Accreditation No. CSPD000283CO

ROBERT D. KRIEG

has completed the special course in
Asbestos Abatement for Contractors,
Supervisors, and Project Designers

DECEMBER 7, 1990
Expiration Date

Major Safety Inc.
In cooperation with
Red Rocks
Community College



CERTIFICATE OF ACCREDITATIO

Certificate # 880309-01 Expiration Date 3/11/89

Student Name ROBERT KRIEG

Name of Course Completed ASBESTOS WORKER TRAINING COURSE

Course Date 3/09-11/88 Examination Date 3/11/88

Examination Performance X PASS / FAIL

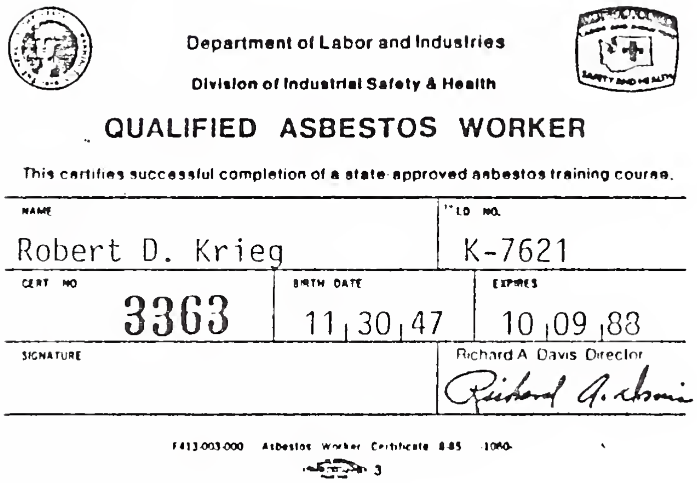
*EPA approved 12/03/87

Northern Engineering and Testing Inc

By

(See reverse side)

Montana



Department of Labor and Industries

Division of Industrial Safety & Health

QUALIFIED ASBESTOS WORKER

This certifies successful completion of a state-approved asbestos training course.

NAME		I.D. NO.
Robert D. Krieg		K-7621
CERT NO	BIRTH DATE	EXPIRES
3363	11 30 47	10 09 88
SIGNATURE		Richard A. Davis Director

F413-003-000 Asbestos Worker Certificate 8-85 1080-

3

Washington

Chen-Northern, Inc.

CERTIFICATE OF TRAINING

890613-12
CERTIFICATE #

THIS CERTIFIES THAT

BOB KRIEG
STUDENT NAME

HAS COMPLETED

CONTRACTOR/SUPERVISOR ASBESTOS COURSE
NAME OF COURSE COMPLETED

6/13-15/89 ; 6/26/89
COURSE DATE

6/26/89
EXAMINATION DATE

By Ross A. Yeager

This Certificate only verifies the Student's completion of the course. No other representation or warranty, whether express or implied, is made by Chen-Northern, Inc.

Wayne W. Schwoob
Route 2 Evaro
Missoula, Montana 59801

55 Years Old
Married
Six Children

EDUCATION

North Central High School
1952 Graduate

Received a scholarship to Northrup Aeronautical Institute at Northrup, California.

EXPERIENCE

1954	Qualified for Jet training in Amerillo,Texas for U.S. Air Force
1955	Joined Asbestos Workers Local 82 in Spokane, Washington. Served a four year apprentice course.
1959	Received my Journeyman card.
1956-1972	Employed by Fiberglass Engineer and Supply. A pipe insulation contractor. While employed by them I was foreman and superintendent

OCCUPATIONAL QUALIFICATIONS

The following list are the larger projects I have been superintendent on.

1) HOLY FAMILY HOSPITAL
2) EXXON REFINERY, CUTBANK, MONTANA
3) HOSPITAL, BROWNING, MONTANA
4) DEACONESS HOSPITAL , GREAT FALLS, MONTANA
5) V.A. HOSPITAL, HELENA, MONTANA
6) MINUTE MEN MISSILE PROJECT
(Last 50 cycles)
7) PULP MILL, MISSOULA, MONTANA (HOERNER WALDORF)

After leaving Fiberglass Engineering and Supply I was employed by Thermoguard Insulation in Spokane as an estimator for four years. Then I purchased their piping division and sold it in 1980.

Went to work for Brand Insulation (Chicago) where I was a superintendent for the Colstrip No. 3 and 4 Powerhouse. Then I transferred to Nuclear Power House #2 in Richland, Washington, and on to 100 N reactor. In 1986, went to work for Rocky Mountain Mechanical in Missoula, Montana as a pipe insulating foreman and blue print estimator.

I received my project designer certification and supervisor/contractor certification for asbestos abatement work.

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

This certifies that

WAYNE W. SCHWOOB

is accredited as

ASBESTOS ABATEMENT CONTRACTOR/SUPERVISOR

by the State of Montana

ID. MTA0105 Expiration date 12/7/90

MONTANA APPLICATION FOR ACCREDITATION IN ASBESTOS-RELATED OCCUPATIONS

APPLICANT INFORMATION
(Please Print)

Schwoob Wayne W
(APPLICANT'S NAME (LAST, FIRST, MIDDLE INITIAL)

Rt 2 Evaro
Home Address

Missoula Mont 59802
City State Zip Code

406 - 726-3820
Home Telephone

520-30-8214
Social Security Number

OHES USE ONLY

Mtn States Insulation

Fees:
Pd By ck
Amount Pd 100.00
Check No 0004295
Date of Ck ____

Date Rcd 1-24-90
Date Appvd 1-25-90
Date Denied ____
ID# MTA0105
Date Issued 1-25-90
Initials ck

TRAINING INFORMATION: Please enclose a copy of the certificate of completion relevant to the appropriate course or courses, including refresher courses.

COURSE NAME	DATES ATTENDED (from-to)	TEST DATE	COURSE ACCREDITATED BY
ntractor/Supervisor Project Designer	Dec 3 - Dec 7	Dec 7-1989	E.P.A. CSPD 000282CO

ACCREDITATION INFORMATION: Please check appropriate boxes for those occupations in which you are seeking accreditation, and enclose the appropriate fee.

☒ Original Applications

☐ Asbestos Inspector - $100

☐ Asbestos Management Planner - $100

☐ Asbestos Abatement Project Designer - $100

☐ Renewal

☒ Asbestos Abatement Contractor/Supervisor - $100 12-7-90

☐ Asbestos Abatement Worker - $25

☐ I am applying in more than one asbestos-related occupation, as checked above. The fee is $200, or the sum of individual fees, whichever is less. ____

mitted information is true and correct, and that I am accreditation requirements.

Date 1-19-90

reau, OHES, Cogswell Bldg., Helena, MT 59620

(TEL# 406-444-3671)

sheets to enter more training information, if necessary)

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES

This certifies that

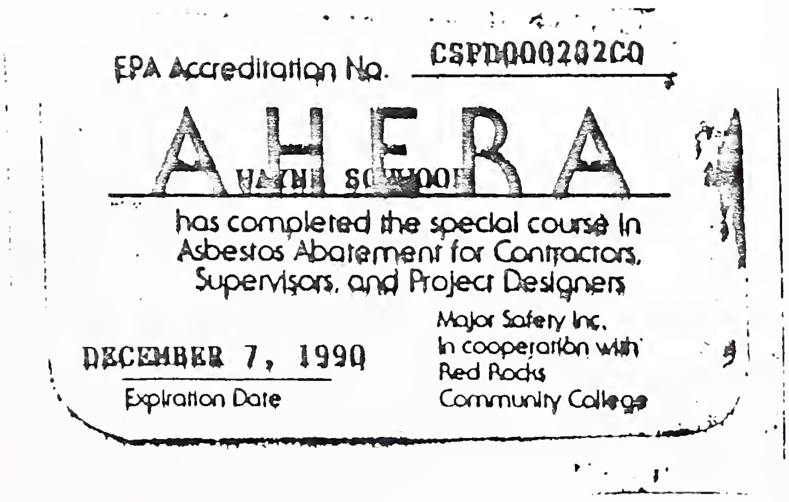
WAYNE W. SCHWOOB

is accredited as

SBESTOS ABATEMENT CONTRACTOR/SUPERVISOR

by the State of Montana

ID MTA0105 12/7/90



EPA Accreditation No. CSPD000202C0

AHERA

WAYNE SCHOOF

has completed the special course in
Asbestos Abatement for Contractors,
Supervisors, and Project Designers

DECEMBER 7, 1990
Expiration Date

Major Safety Inc.
In cooperation with
Red Rocks
Community College

MAJOR ENVIRONMENTAL
& TRAINING SERVICES, INC.

E.P.A. ACCREDITATION NO. CSPD000282CO

Red Rocks Community College

CERTIFIES THAT

WAYNE SCHWOOB

Has completed the special course in:

CONTRACTOR/SUPERVISOR/PROJECT DESIGNER TRAINING FOR ASBESTOS ABATEMENT

DECEMBER 4 – 7, 1989

expires DECEMBER 7, 1990

TRAINING COORDINATOR

Invalid without raised se

© GOES /2
LI U.S.A.

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES

This certifies that
STEPHEN SCHULTZ
is accredited as
ASBESTOS ABATEMENT WORKER
by the State of Montana

ID. MTA0519 Expiration date 6/20/91

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

CASH
RECEIPT NO. 226760

CK NO. ______ C/R NO. 901141 A/E ______ DR ______ CR ______ RC 2402

OB EX ______ OB RV 2402 A/R ______ UCC # ______ DATE 06 11 90

RECEIVED THE SUM OF Twenty-five and no/100------------------------ DOLLARS $ 25.00

FROM

☒ CASH ☐ CHECK ☐ MONEY ORDER

Stephen Schultz
Drummond, MT 59832

FOR: Asbestos Applic

BY: EL

PAYOR COPY

CWF
Rec'd
7/17/90

This is to certify that

Stephen C. Schultz
517-54-0302
Box 295
Drummond, MT 59832

has successfully completed the Montana State Approved

Asbestos Abatement Worker Refresher Course

conducted by

Bison Engineering, Inc.
30 S. Ewing
Helena, MT 59601

June 20, 1990

Course Approved by:
Montana Department of Health and Environmental Sciences
Cogswell Building
Helena, MT 59620

W R Shuck
Course Instructor

June 20, 1991
Expiration Date

Asbestos Consulting & Training Systems

This is to Certify that

STEPHEN SCHULTZ S.S.# 517-54-0302

ACTS

has successfully completed

Asbestos Abatement Worker Course

on JUNE 1, 1989-JUNE 3, 1989

COURSE #6110

VALID
ONLY
WITH
SEAL

and has passed an Examination

on JUNE 3, 1989

Course Director

This Certificate Expires JUNE 2, 1990

AHERA Certification Number 0456

GAP
GOOD ABATEMENT PRACTICES

CERTIFICATE
OF
WORKER'S RISK ACKNOWLEDGEMENT
& TRAINING

CONTRACTOR NAME Mountain States Insulation Inc.

ADDRESS Box 8598 missoula MT

PROJECT NAME ____________ Project No. ____________

WORKING WITH ASBESTOS CAN BE DANGEROUS. INHALING ASBESTOS FIBERS HAS BEEN LINKED WITH LUNG DISEASE AND CANCER. IF YOU SMOKE AND INHALE ASBESTOS FIBERS, THE CHANCE THAT YOU WILL DEVELOP LUNG CANCER IS MUCH GREATER THAN THAT OF A PERSON WHO ONLY SMOKES OR ONLY INHALES THE SAME AMOUNT OF ASBESTOS.

RESPIRATORY PROTECTION:

I have been trained in the proper use of respirators, and I have been informed of the types of respirators to be used on this project. I have been provided with a copy of the written respiratory protection procedures issued by my employer. I have been provided with, and fit tested with, the respirators to be used on this project.

TRAINING COURSE:

I have been trained in accordance with the OSHA Asbestos Standard 29 CFR 1926.58 on the dangers in handling asbestos and breathing asbestos fibers, in proper work procedures, and personal protective measures. The topics covered in the course included the following:

- Physical Characteristics of Asbestos
- Health Hazards Associated with Asbestos
- Respiratory Protection
- Use of Personal Protective Equipment
- Use and Set-up of Negative Pressure AFD Systems
- Work Practices including On-the-Job Training
- Safety Practices & Procedures
- Personal Decontamination Procedures
- Fire and Emergency Procedures.

MEDICAL EXAMINATION:

I have had a medical examination as required by OHSA 29 CFR 1926.58 within the last 12 months which was paid for by my employer.
This examination included: health history, pulmonary function test, and chest X-ray.

By signing this certification you are assuring that your employer has fully met these obligations to you.

Employees Name Stephen C Schultz S.S. No. 517-54-0302

Signature Stephen C Schultz Date 16 July 90

Contractor Representative ____________ Date ____________

FIDELITY
ENVIRONMENTAL
INSURANCE COMPANY

(Good Abatement Practices) GAP™ Program.

StJ St. James Community Hospital, Inc.

DATE 6/7/89

PATIENT Stephen Schultz

This patient was examined this date for an annual baseline examination utilizing the examination protocol of

Spectrum Environmental

1. Worker [✓ IS]/IS NOT qualified for respirator use.
2. This employee is FIT/NOT FIT for hazardous material work. WITH RESPIRATOR AND EYE PROTECTION
3. A complete copy of this examination is on file at St. James [illegible] Community Hospital, Inc., Butte, Montana.

SIGNED John Pullman

P.O. Box 3300 400 South Clark Street Butte, Montana 59702 (406) 782-8361

C.W.Z
Rec'd
7/23/90

INITIAL RESPIRATORY EQUIPMENT FIT TEST

EMPLOYEE NAME
Last: Schultz First: Stephen
I.D. MTAO 519
DATE Year 90 Month JUL Day 23

AGE 41 SEX [✓ -M] F__ EXPERIENCE(years) 1 FREQUENCY ______

MASK NOW USING North 7700 30M UNUSUAL CONDITIONS NONE

MASK SELECTED North 7700 30M IAA Sensitivity Test--PASS or FAIL

QUALITATIVE TESTS- PP NP IA [✓ IS] ______ [✓ 1=passed],2=failed,3=did not run

SMOKE Sensitivity Test-[✓ PASS] or FAIL

RESPIRATOR SELECTION

1st Choice-[✓ Pass] or Fail
2nd Choice- Pass or Fail
3rd Choice- Pass or Fail
Final Selection North 7700 (MANUFACTURER) 30M (SIZE)

TEST INSTRUCTORS NAME::: [illegible]

Comments:

Facial Conditions (x)

[✓ Wrinkles]
Broken Nose
Deep Nostrills
Small Face
Narrow Face
Wide Face
Wide Bridge
[✓ Shallow Bridge]

KEY

I.D. = Plant Identification Number
Frequency= How many times respirator used during week.
- 1) Less than 1/week
- 2) 1-5 times/week
- 3) 5-10 times/week
- [✓ 4)] 1-4 times/day

Masks= (Block 37)-Manufacturer)
- 1= Mine Safety Appliance
- 2=American Optical
- 3= Scott Aviation
- [✓ 4=] North
- 5= Willson
- 6= Survivair

Qualitative Tests= PP=Positive Pressure
NP=Negative Pressure
IA=Isoamyl Acetate
[✓ IS]=Irritant Smoke

(OVER)

DAILY RESPIRATOR FIT CHECK RECORD

DATE 23 Jul 90

INSTRUCTOR Bob Kreig

EMPLOYEE SIGNATURE Stephen C Schultz

The above employee acknowledges he has been fitted, tested and trained as specified by OSHA regulation,(Appendix C to 1926 58- Qualitative and Quantitative Fit Testing Procedures)

NAME	RESPIRATOR SIZE	PP	NP	ISDAMYL-ACETATE	NOTES

MONTANA APPLICATION FOR ACCREDITATION IN ASBESTOS-RELATED OCCUPATIONS

APPLICANT INFORMATION
(Please Print)

Jennifer Molino Jennifer B
APPLICANT'S NAME (LAST, FIRST, MIDDLE INITIAL)

Bx 632
Home Address

Bonner Mt 59823
City State Zip Code

258-6166 239-80-0311
Home Telephone Social Security Number

DHES USE ONLY

Fee:
Pd By
Amount Pd 25.00
Check No 1599
Date of Ck
Date Rcd 2-2-90
Date Appvd 2-2-90
Date Denied
ID# MTA0165
Date Issued 2-2-90
Initials

TRAINING INFORMATION: Please enclose a copy of the certificate of completion relevant to the appropriate course or courses, including refresher courses.

COURSE NAME	DATES ATTENDED (from-to)	TEST DATE	COURSE ACCREDITATED BY

ACCREDITATION INFORMATION: Please check appropriate boxes for those occupations in which you are seeking accreditation, and enclose the appropriate fee.

☒ Original Applications
☐ Asbestos Inspector - $100
☐ Asbestos Management Planner - $100
☐ Asbestos Abatement Project Designer - $100

☐ Renewal
☐ Asbestos Abatement Contractor/Supervisor - $100
☑ Asbestos Abatement Worker - $25 11-28-90

☐ I am applying in more than one asbestos-related occupation, as checked above. The fee is $200, or the sum of individual fees, whichever is less.

ubmitted information is true and correct, and that I am
e accreditation requirements.

nnifer B Molino Date 1/19/90

Bureau, DHES, Cogswell Bldg., Helena, MT 59620

(TEL# 406-444-3671)

sheets to enter more training information, if necessary)

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES

This certifies that
JENNIFER B. MOLINO
is accredited as
ASBESTOS ABATEMENT WORKER
by the State of Montana
MTA0164 Expiration date 11/28/90

C. PAUL LOEHNEN, M.D., P.C.
DIPLOMATE OF THE AMERICAN BOARD OF
INTERNAL MEDICINE
PULMONARY DISEASE
CRITICAL CARE MEDICINE

601 West Spruc
Missoula, Montana 5980
(406) 728-532

January 26, 1990

Mr. Robert Krieg
Mountain States Insulation
P.O.Box 8598
Missoula, Mt. 59807

RE: JENNIFER MOLINO

Dear Mr. Krieg:

Ms. Jennifer Molino presented for an evaluation to ensure she has not sustained adverse effects from asbestos exposure. She states she has worked in asbestos removal for the past two to three years, averaging approximately two weeks per year. During this time, she takes all appropriate precautions. She has been in excellent physical health without significant past medical difficulties. She denies all respiratory symptoms apart from some chest discomfort and shortness of breath, at times, which she attributes to stress. Her past history is negative for atopic symptoms and her family history is unremarkable. She is a non-smoker.

Physical examination revealed a somewhat anxious woman weighing 154 pounds. Her blood pressure was 134/98, this remained elevated when repeated after her examination. Examination of her head, neck, heart, and lungs were all within normal limits.

Her lung function is normal as is her chest x-ray.

My assessment, at this time, is that Ms. Molino has not sustained adverse effects from asbestos exposure. She may have significant hypertension and this should be serially monitored. Her lung function is adequate and she would tolerate using a half mask.

Yours Sincerely,

C. Paul Loehnen, M.D.
CPL:bp

cc: PATIENT

INITIAL RESPIRATORY EQUIPMENT FIT TEST

EMPLOYEE NAME — I.D. — DATE

Last ~~First~~ — Year Month Day

Molino Jennifer ______ 80 8 6

AGE 39 SEX-M [✓ F] EXPERIENCE(years) 4 FREQUENCY —

MASK NOW USING half mask neg UNUSUAL CONDITIONS none

MASK SELECTED 1/2 Face North IAA Sensitivity Test--PASS or FAIL

QUALITATIVE TESTS- PP NP IA [✓ IS] ______ [✓ 1=passed],2=failed,3=did not run

SMOKE Sensitivity Test-[✓ PASS] or FAIL

RESPIRATOR SELECTION

[✓ 1st Choice]- Pass or Fail
2nd Choice- Pass or Fail
3rd Choice- Pass or Fail

Final Selection North half MASK M
MANUFACTURER SIZE

TEST INSTRUCTORS NAME::: Wayne [illegible]

Comments:

Facial Conditions (x)

Wrinkles
Broken Nose
Deep Nostrills
Small Face
Narrow Face
[✓ Wide Face]
Wide Bridge
Shallow Bridge

KEY

I.D. = Plant Identification Number
Frequency= How many times respirator used during week.
  1) Less than 1/week
  [✓ 2) 2-5 times/week]
  3) 5-10 times/week
  4) 1-4 times/day

Masks= (Block 37)-Manufacturer)
  1= Mine Safety Appliance
  2=American Optical
  3= Scott Aviation
  [✓ 4= North]
  5= Willson
  6= Survivair

Qualitative Tests= PP=Positive Pressure
  NP=Negative Pressure
  IA=Isoamyl Acetate
  [✓ IS=Irritant Smoke]

CNF
Received
7/19/90

BUTTE FAMILY PRACTICE, INC.
Anthony M. Konecny M.D.
3215 Ottawa Street
Butte, MT 59701
(406) 782-7257

July 19, 1990

RE: Robert Russell

To Whom It May Concern:

I performed a complete physical examination for asbestos removal on May 29, 1990. At that time, he had a chest x-ray which was normal, and a pulmonary function test, which was also normal.

I would certainly expect this physical to suffice for any further job opportunities that this man may have, since it is not advisable that he have repeat chest x-rays for every new job. Also repeat spirometries become excessively expense, unless there has been a change in his condition.

I do think that annual physical exams in his type of an occupation, are indicated however.

Sincerely yours,

Anthony M. Konecny, M.D.

AMK:pp

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES

This certifies that
ROBERT DUANE RUSSELL
is accredited as
ASBESTOS ABATEMENT WORKER
by the State of Montana
MTA0406
Expiration date 2/1/91

THIS IS TO CERTIFY

Robert D. Russell

517-80-7867

HAS COMPLETED THE ASBESTOS ABATEMENT WORKER COURSE AND SATISFACTORILY PASSED AN EXAMINATION COVERING THE CONTENTS OF THE COURSE. THE COURSE AND EXAM IS IN ACCORDANCE WITH 40 CFR PART 763 (AHERA) AND APPROVED BY THE ENVIRONMENTAL PROTECTION AGENCY.

Jan. 30-Feb. 1, 1990
COURSE DATE

Feb. 1, 1991
EXPIRATION DATE

brand

TT0502
CERTIFICATE NUMBER

COURSE DIRECTOR

THE BRAND COMPANIES, INC.

CWE
rec'd
7/23/90

INITIAL RESPIRATORY EQUIPMENT FIT TEST

EMPLOYEE NAME
Last First: Russell Robert
I.D.: 517-80-7867 social security
DATE Year Month Day: 5 - 4 66

AGE 24 SEX-M X F__ EXPERIENCE(years) 1 FREQUENCY______

MASK NOW USING Half mask negative UNUSUAL CONDITIONS______

MASK SELECTED L/north [✓ IAA] Sensitivity Test--PASS or FAIL

QUALITATIVE TESTS- PP NP IA [✓ IS] ______ [✓ 1]=passed,2=failed,3=did not run

SMOKE Sensitivity Test- PASS or FAIL

RESPIRATOR SELECTION

1st Choice- [✓ Pass] or Fail
~~2nd Choice- Pass or Fail~~
3rd Choice- Pass or Fail
Final Selection north Large
MANUFACTURER SIZE

TEST INSTRUCTORS NAME::: Bob Krieg

Comments:

Facial Conditions (x)

Wrinkles	Narrow Face
Broken Nose	✓ Wide Face
Deep Nostrills	✓ Wide Bridge
Small Face	Shallow Bridge

KEY

I.D. = Plant Identification Number
Frequency= How many times respirator used during week.
1) Less than 1/week
2) 1-5 times/week
[✓ 3)] 5-10 times/week
4) 1-4 times/day

Masks= (Block 37)-Manufacturer)
1= Mine Safety Appliance
2=American Optical
3= Scott Aviation
[✓ 4=] North
5= Willson
6= Survivair

Qualitative Tests= [✓ PP]=Positive Pressure
[✓ NP]=Negative Pressure
IA=Isoamyl Acetate
[✓ IS]=Irritant Smoke

(OVER)

DAILY RESPIRATOR FIT CHECK RECORD

DATE 7-23-90

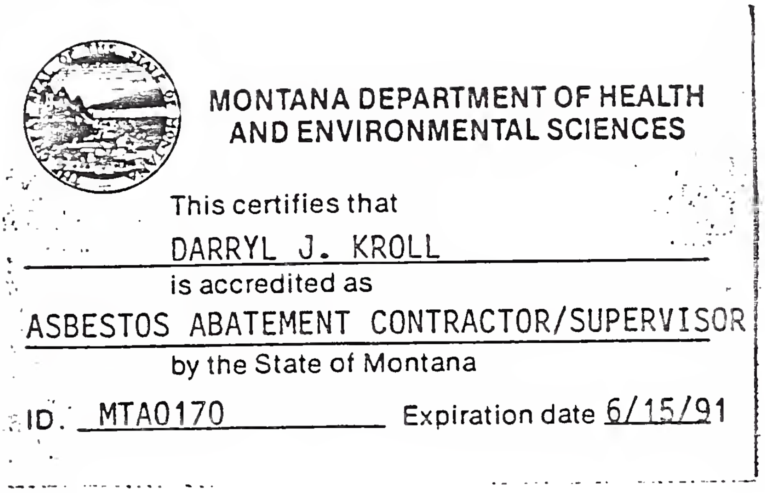
INSTRUCTOR Bob Krieg

EMPLOYEE SIGNATURE Robert D Russell

The above employee acknowledges he has been fitted, tested and trained as specified by OSHA regulation,(Appendix C to 1926 58- Qualitative and Quantitative Fit Testing Procedures)

NAME	RESPIRATOR SIZE	[✓ PP]	[✓ NP]	[✓ ISDAMYL-ACETATE]	NOTES
Robert D Russell	Large	✓	✓		wide face wide bridge

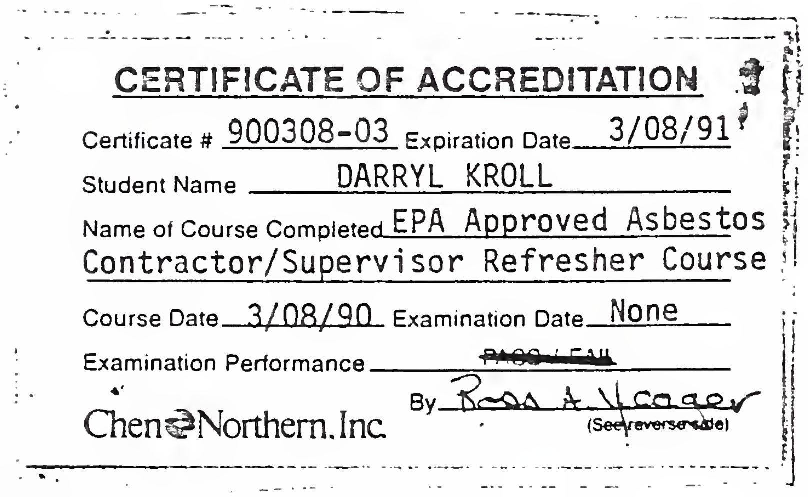
CWE
Rec'd
7/23/90



MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES

This certifies that
DARRYL J. KROLL
is accredited as
ASBESTOS ABATEMENT CONTRACTOR/SUPERVISOR
by the State of Montana

ID. MTA0170 Expiration date 6/15/91



CERTIFICATE OF ACCREDITATION

Certificate # 900308-03 Expiration Date 3/08/91

Student Name DARRYL KROLL

Name of Course Completed EPA Approved Asbestos Contractor/Supervisor Refresher Course

Course Date 3/08/90 Examination Date None

Examination Performance ~~PASS / FAIL~~

Chen Northern, Inc.

By Ross A. Yeager
(See reverse side)

CNE
rec'd
7/23/90

November 10, 1989

Spectrum Environmentals
600 Elm Street
Anaconda, MT 59701

DARRYL J. KROLL
BC #390746

Dear Gentlemen:

I have recently completed my asbestos screening examination on Darryl Kroll. I am pleased to report that I have found no evidence of any asbestos related medical condition. I have found no medical reason to restrict this employee's activities on the job. If fit testing for respiratory fit is satisfactory, I find no medical reason to restrict this employee's use of a respirator.

We appreciate the opportunity of seeing Spectrum Environmentals employees. If there are any questions regarding this employee or other medical problems, please feel free to contact me. The results of this examination have been discussed with the patient.

Sincerely,

DAVID JOHNSON, P.A./C.

cml
Enclosures

[illegible] BILLINGS [illegible]

ARRYL KROLL
OCC. MEDICINE
NOVEMBER 10, 1989

#390746

Periodic asbestos surveillance exam as an employee of Enviromental Basics out of Missoula. Periodic questionnaire completed and reviewed. Past 1 year has worked essentially full-time on asbestos work wearing full protection and following full good safety habits. Denies any health problems in the past year other than recurrent acne on the skin. Does continue smoking cigarettes but has cut down. Is hoping to quit in the near future (Has quit for 1 year in the past).

Chest x-ray is negative and unchanged since 1988. Pulmonary screen again reveals obstructive pulmonary impairment with some decrease in FEV_1 and FVC compared to 1988.

PE: Healthy appearing adult male in no acute distress. SKIN: Does reveal scattered acne and acne scarring across the back and face. No rash noted. ENT: Clear. NECK: Supple without thyromegaly, carotid bruit or adenopathy. HEART: Regular rhythm without murmur, extra systole, S3 or S4. LUNGS: Clear to P&A. ABDOMEN: Soft without organomegaly, mass, tenderness or bruit. RECTAL: Exam revealed no mass or prostate tenderness. Hemocult slide negative. EXTREMITIES: Without edema or atrophy. Peripheral pulses 2+.

DX: 1) No sign of asbestos related disease.
2) Obstructive pulmonary impairment.
3) Acne.

[illegible]: Always wear proper respiratory protection and protective clothing when working with asbestos. Continue following good work habits. Strongly advised stop smoking and is given literature regarding Smoke Stoppers. Encourage follow-up with personal physician regarding treatment of acne in the future.

DAVID JOHNSON, PA/C/WILLIAM S. SHAW, M.D./ml
trans: 11/13/89

Chen Northern, Inc.
Consulting Engineers and Scientists

CERTIFICATE OF SATISFACTORY COMPLETION

CERTIFICATE NO. 900622-08

EXPIRATION DATE: 6/22/91

STUDENT NAME: ROCKY PIERCE

STREET: MULLEN ROAD - DRAWER D

CITY: MISSOULA STATE: MT ZIP: 59806

NAME OF COURSE: ASBESTOS CONTRACTOR/SUPERVISOR REFRESHER TRAINING COURSE

COURSE DATE: 6/22/90

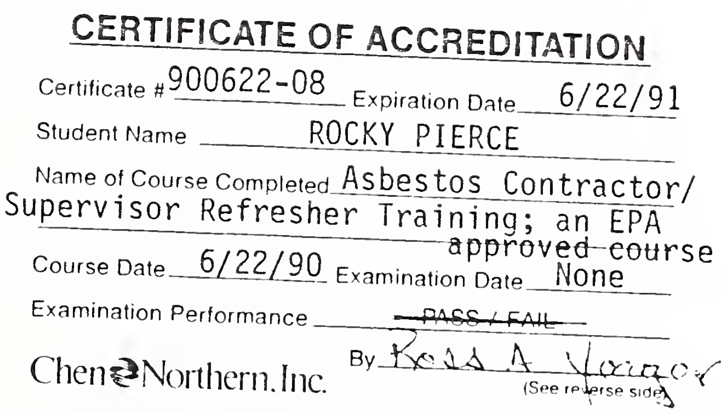
EXAMINATION DATE: NONE

EXAMINATION PERFORMANCE: ______ PASS ______ FAIL

COURSE APPROVAL: MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

COURSE PROVIDER:
CHEN-NORTHERN, INC.
600 SOUTH 25TH STREET
BILLINGS, MONTANA 59107

INSTRUCTOR: Ross A. Yeager



CERTIFICATE OF ACCREDITATION

Certificate # 900622-08 Expiration Date 6/22/91

Student Name ROCKY PIERCE

Name of Course Completed Asbestos Contractor/ Supervisor Refresher Training; an EPA approved course

Course Date 6/22/90 Examination Date None

Examination Performance ~~PASS / FAIL~~

Chem Northern, Inc.

By Ross A Varner

(See reverse side)

Chen Northern, Inc.
Consulting Engineers and Scientists

CERTIFICATE OF SATISFACTORY COMPLETION

CERTIFICATE NO. 900622-13

EXPIRATION DATE: 6/22/91

STUDENT NAME: CURTIS MORGEAU

STREET: MULLEN ROAD - DRAWER D

CITY: MISSOULA STATE: MT ZIP: 59806

NAME OF COURSE: ASBESTOS CONTRACTOR/SUPERVISOR REFRESHER TRAINING COURSE

COURSE DATE: 6/22/90

EXAMINATION DATE: NONE

EXAMINATION PERFORMANCE: ______ PASS ______ FAIL

COURSE APPROVAL: MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

COURSE PROVIDER:
CHEN-NORTHERN, INC.
600 SOUTH 25TH STREET
BILLINGS, MONTANA 59107

INSTRUCTOR: Ross A. Yeager

CERTIFICATE OF ACCREDITATION

Certificate # 900622-13 Expiration Date 6/22/91

Student Name CURTIS MORGEAU

Name of Course Completed Asbestos Contractor/ Supervisor Refresher Training; an EPA approved course

Course Date 6/22/90 Examination Date None

Examination Performance ~~PASS / FAIL~~

By Ross A. Yeager
(See reverse side)

Chen Northern, Inc.

CERTIFICATE OF INSURANCE

DATE: 07/02/90

PRODUCER

Western States Ins. Agy., Inc.
1705 Bow Street
P.O. Box 4386
Missoula, MT 59806
(406) 721-1000

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHT UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW

INSURED

MOUNTAIN STATES ABATEMENT, INC
P O Box 8598
Missoula, MT 59807

COMPANIES AFFORDING COVERAGE

COMPANY LETTER	A	FIDELITY ENVIRONMENTAL INSURANCE COMPANY
COMPANY LETTER	B	
COMPANY LETTER	C	
COMPANY LETTER	D	
COMPANY LETTER	E	

COVERAGES

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS, AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE	POLICY EXPIRATION DATE	ALL LIMITS IN THOUSANDS
A	GENERAL LIABILITY [X] COMMERCIAL GENERAL LIABILITY [X] [ ] CLAIMS MADE [X] OCCURRENCE [ ] OWNER'S & CONTRACTORS PROTECTIVE [ ] [ ]	ARC902700396	01/05/90	01/05/91	GENERAL AGGREGATE $ 1000 PRODUCTS-COMP/OPS AGGREGATE $ INCL PERSONAL & ADVERTISING INJURY $ INCL EACH OCCURRENCE $ 1000 FIRE DAMAGE (ANY ONE FIRE) $ EXCL MEDICAL EXPENSE (ANY ONE PERSON) $ 5
	AUTOMOBILE LIABILITY [ ] ANY AUTO [ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [ ] HIRED AUTOS [ ] NON-OWNED AUTOS [ ] GARAGE LIABILITY [ ]				CSL $ BODILY INJURY (PER PERSON) $ BODILY INJURY (PER ACCIDENT) $ PROPERTY DAMAGE $
	EXCESS LIABILITY [ ] UMBRELLA FORM [ ] OTHER THAN UMBRELLA				EACH OCCURRENCE $ AGGREGATE $
	WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY				STATUTORY $ (EACH ACCIDENT) $ (DISEASE-POLICY LIMIT) $ (DISEASE-EACH EMPLOYEE)
	OTHER				

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

ANSELMO MINE RECLAMATION PROJECT, CONTRACT #1, ASBESTOS REMOVAL AND ABATEMENT, SILVER BOW COUNTY, MT
MONTANA DEPARTMENT OF STATE LANDS; US DEPARTMENT OF INTERIOR, OFFICE OF SURFACE MINING; BUTTE SILVER BOW COUNTY, COUNTY PLANNING OFFICE ARE NAMED AS ADDITIONAL INSURED AS RESPECTS ABOVE CAPTIONED JOB

CERTIFICATE HOLDER

MONTANA DEPARTMENT OF STATE LANDS
US DEPARTMENT OF THE INTERIOR
BUTTE-SILVER BOW COUNTY

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Not Valid If Executed
After Dec. 31, 1990

AMERICAN BONDING COMPANY

LOS ANGELES, CALIFORNIA

A STOCK COMPANY

POWER OF ATTORNEY

GV No. I 118535

AMERICAN BONDING COMPANY, a Nebraska Corporation, having its administrative office in the City of Los Angeles, State of California, does hereby make, constitute and appoint

Reynold H. Huseby or Steve Walker of Denver, Colorado.

as Attorney(s)-in-Fact, with full power and authority hereby conferred to execute and deliver and affix the seal of the corporation thereto, if a seal is required, for and on its behalf as Surety, and as its act and deed, all of the following classes of documents, to wit:

Contract between Mountain States Abatement, Inc. and State of Montana/Department of Lands in the amount of One Hundred Fifty Thousand Five Hundred and Sixty Seven Dollars ($150,567.00).

The American Bonding Company further certifies that the following is a true and exact copy of Article VII Section 3, of the By-Laws of American Bonding Company duly adopted and now in force, to wit:

SECTION 3. All bonds, undertakings, recognizances or other written obligations of the corporation shall be executed in the name of the corporation by the president, any vice-president, secretary, any assistant-secretary or the treasurer, or by such other persons as may from time to time be properly authorized. The president, any vice-president, the secretary, any assistant-secretary or the treasurer may appoint or remove resident vice-presidents, resident assistant-secretaries, attorneys in fact, agents or other persons who shall have authority to issue and deliver bonds, undertakings, recognizances or other written obligations in the name of the corporation. The corporate seal is not necessary for the validity of any bonds, undertakings, or other obligations of the corporation. The signature of any authorized officer and the seal of the corporation may be affixed by facsimile to any power of attorney or certification thereof authorizing the execution and delivery of any bond, or undertaking of the corporation: and such signature and seal when so used shall have the same force and effect as though manually affixed.

IN WITNESS WHEREOF, AMERICAN BONDING COMPANY has caused these presents to be executed by its duly authorized officer and its corporate seal affixed, this 4th day of November 19 89

SEAL 1930

President

State of California
County of Los Angeles

On this 4th day of November 19 89 before me a Notary Public, personally appeared the above named officer of American Bonding Company, a corporation, known to me to be the person and officer who executed the above Power of Attorney on behalf of the corporation and acknowledges the corporation voluntarily executed the same.

OFFICIAL SEAL
M. S. RODRIGUEZ
NOTARY PUBLIC-CALIFORNIA
PRINCIPAL OFFICE IN
LOS ANGELES COUNTY
My Commission Expires Nov 3, 1993

M. S. Rodriguez
Notary Public

CERTIFICATE

I, the undersigned, certify that I am the Secretary of American Bonding Company, a Nebraska corporation, and that the attached Power of Attorney remains in full force and effect, and has not been revoked; and furthermore that Article VII Section 3, of the By-Laws of said company as set forth in said Power of Attorney, are now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the said Company this 29TH day of JUNE 19 90

SEAL 1930

W. B. Gillingham
Secretary

OR IF NUMBERED NOT IN RED

PERFORMANCE BOND

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly and faithfully perform said Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time made by the Owner.

Whenever Contractor shall be, and declared by Owner to be in default under the Contract, the Owner having performed Owner's obligations thereunder, the Surety may promptly remedy the default, or shall promptly

1) Complete the Contract in accordance with its terms and conditions, or

2) Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by Surety of the lowest responsible bidder, or, if the Owner elects, upon determination by the Owner and the Surety jointly of the lowest responsible bidder, arrange for a contract between such bidder and Owner, and make available as Work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "balance of the contract price," as used in this paragraph, shall mean the total amount payable by Owner to Contractor under the Contract and any amendments thereto, less the amount properly paid by Owner to Contractor.

Any suit under this bond must be instituted before the expiration of two (2) years from the date on which final payment under the Contract falls due.

No right of action shall accrue on this bond to or for the use of any person or corporation other than the Owner named herein or the heirs, executors, administrators or successors of the Owner.

Signed and sealed this 29TH day of JUNE 19 90.

MOUNTAIN STATES ABATEMENT, INC.
(Principal) (Seal)

(Witness)

(Title)

AMERICAN BONDING COMPANY
(Surety) (Seal)

(Witness)

Reynold J. Huseby (Title) Attorney-in-Fact

THE AMERICAN INSTITUTE OF ARCHITECTS

AIA Document A311

SURETY BOND #118535

Performance Bond

KNOW ALL MEN BY THESE PRESENTS: that MOUNTAIN STATES ABATEMENT, INC.
(Here insert full name and address or legal title of Contractor)

2602 SYCAMORE, MISSOULA, MONTANA 59802

as Principal, hereinafter called Contractor, and, AMERICAN BONDING COMPANY
(Here insert full name and address or legal title of Surety)

1131 SOUTH LA CANADA, GREEN VALLEY, ARIZONA 85622

as Surety, hereinafter called Surety, are held and firmly bound unto STATE OF MONTANA/DEPARTMENT
(Here insert full name and address or legal title of Owner)

OF LANDS, 1520 EAST SIXTH AVENUE, HELENA, MONTANA 59620

as Obligee, hereinafter called Owner, in the amount of ONE HUNDRED FIFTY THOUSAND FIVE

HUNDRED SIXTY-SEVEN AND NO/100-------------------------Dollars ($ 150,567.00

for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS,

Contractor has by written agreement dated JUNE 15 1990, entered into a contract with Owner for
(Here insert full name, address and description of project)

ANSELMO MINE RECLAMATION - ASBESTOS REMOVAL
BUTTE, MONTANA

in accordance with Drawings and Specifications prepared by
(Here insert full name and address or legal title of Architect)

STATE OF MONTANA

which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

THE AMERICAN INSTITUTE OF ARCHITECTS

AIA Document A311

SURETY BOND # 118535

Labor and Material Payment Bond

THIS BOND IS ISSUED SIMULTANEOUSLY WITH PERFORMANCE BOND IN FAVOR OF THE OWNER CONDITIONED ON THE FULL AND FAITHFUL PERFORMANCE OF THE CONTRACT

KNOW ALL MEN BY THESE PRESENTS: that MOUNTAIN STATES ABATEMENT, INC.
(Here insert full name and address or legal title of Contractor)
2602 SYCAMORE, MISSOULA, MONTANA 59802

as Principal, hereinafter called Principal, and, AMERICAN BONDING COMPANY
(Here insert full name and address or legal title of Surety)
1131 SOUTH LA CANADA, GREEN VALLEY, ARIZONA 85622

as Surety, hereinafter called Surety, are held and firmly bound unto STATE OF MONTANA/ DEPARTMENT
(Here insert full name and address or legal title of Owner)
OF LANDS, 1520 EAST SIXTH AVENUE, HELENA, MONTANA 59620

as Obligee, hereinafter called Owner, for the use and benefit of claimants as hereinbelow defined, in the amount of ONE HUNDRED FIFTY THOUSAND FIVE HUNDRED SIXTY-SEVEN AND NO/100------------
(Here insert a sum equal to at least one-half of the contract price) Dollars ($ 150,567.00),
for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS,

Principal has by written agreement dated JUNE 15 19 90, entered into a contract with Owner for
(Here insert full name, address and description of project)
ANSELMO MINE RECLAMATION - ASBESTOS REMOVAL
BUTTE, MONTANA

in accordance with Drawings and Specifications prepared by
(Here insert full name and address or legal title of Architect)
STATE OF MONTANA

which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

LABOR AND MATERIAL PAYMENT BOND

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Principal shall promptly make payment to all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect, subject, however, to the following conditions:

1. A claimant is defined as one having a direct contract with the Principal or with a Subcontractor of the Principal for labor, material, or both, used or reasonably required for use in the performance of the Contract, labor and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment directly applicable to the Contract.

2. The above named Principal and Surety hereby jointly and severally agree with the Owner that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant, may sue on this bond for the use of such claimant, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon. The Owner shall not be liable for the payment of any costs or expenses of any such suit.

3. No suit or action shall be commenced hereunder by any claimant:

a) Unless claimant, other than one having a direct contract with the Principal, shall have given written notice to any two of the following: the Principal, the Owner, or the Surety above named, within ninety (90) days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the Principal, Owner or Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the state in which the aforesaid project is located, save that such service need not be made by a public officer.

b) After the expiration of one (1) year following the date on which Principal ceased Work on said Contract, it being understood, however, that if any limitation embodied in this bond is prohibited by any law controlling the construction hereof such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.

c) Other than in a state court of competent jurisdiction in and for the county or other political subdivision of the state in which the Project, or any part thereof, is situated, or in the United States District Court for the district in which the Project, or any part thereof, is situated, and not elsewhere.

4. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.

Signed and sealed this 29TH day of JUNE 19 90.

MOUNTAIN STATES ABATEMENT, INC.

(Witness) (Principal) (Seal)

(Title)

AMERICAN BONDING COMPANY

(Witness) (Surety) (Seal)

Reynold J. Huseby, (Title) Attorney-in-Fact

APPENDIX G

SUMMARY OF AIR QUALITY ANALYSIS AND BULK ANALYSIS

SUMMARY OF AIR QUALITY ANALYSIS

Chen-Northern, Inc.
600 S. 25th Street
P.O. Box 30615
Billings, Montana 59107
(406) 248-9161

AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

July 27, 1990
Job No. 90-3313E

Lab No.	Sample Description	Date Sampled Date Analyzed	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc
A - 01	Field Blank	7/17/90 7/17/90	0	0	0	<4,900	*
A - 02	Field Blank	7/17/90 7/17/90	0	0	0	<4,900	*
A - 03	Baseline - Main Hoist House, lower level - boiler room	7/17/90 7/17/90	169	9.26	1,570	<4,900	<0.003
A - 04	Baseline - Main Hoist House, lower level - east side	7/17/90 7/17/90	169	9.83	1,660	7,580	0.005
A - 05	Baseline - Main Hoist House, lower level - center section	7/17/90 7/17/90	166	9.77	1,620	5,890	0.004
A - 06	Baseline - Main Hoist House, lower level - center section	7/17/90 7/17/90	166	9.87	1,640	<4,900	<0.003

Fibers/cc = fibers/ml

xc: Mountain States Abatement

Chen-Northern, Inc.
600 S. 25th Street
P.O. Box 30615
Billings, Montana 59107
(406) 248-9161

AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

July 27, 1990
Job No. 90-3313E

Lab No.	Sample Description	Date Sampled Date Analyzed	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc
A - 07	Baseline - Main Hoist House, lower level - west side	7/17/90 7/17/90	166	9.62	1,600	6,870	0.004
A - 08	Baseline - East Fence Line - north	7/17/90 7/17/90	152	9.60	1,460	<4,900	<0.003
A - 09	Baseline - East Fence Line - center	7/17/90 7/17/90	152	9.76	1,480	<4,900	<0.003
A - 10	Baseline - East Fence Line - south	7/17/90 7/17/90	152	9.43	1,430	<4,900	<0.003
A - 11	Baseline - Central Garage	7/17/90 7/17/90	147	9.92	1,460	<4,900	<0.003
A - 12	Baseline - between Central and South Garages	7/17/90 7/17/90	146	9.79	1,430	<4,900	<0.003
A - 13	Outside area sample - Central Garage (glove bags)	7/18/90 7/18/90	153	9.62	1,470	<4,900	<0.003

Fibers/cc = fibers/ml

Chen-Northern, Inc.
600 S. 25th Street
P.O. Box 30615
Billings, Montana 59107
(406) 248-9161

AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

July 27, 1990
Job No. 90-3313E

Lab No.	Sample Description	Date Sampled Date Analyzed	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc
A - 14	Area sample - East Fence Line - center	7/18/90 7/18/90	203	9.94	1,930	<4,900	<0.003
A - 15	Outside work area Main Hoist House - lower level - northeast corner (glove bag)	7/19/90 7/19/90	168	9.76	1,640	6,870	0.004
A - 16	Outside work area Main Hoist House - lower level - Locker Room (glove bag)	7/19/90 7/19/90	**	**	**	**	**
A - 17	Area sample - upper level of Main Hoist House	7/19/90 7/19/90	152	9.18	1,410	<4,900	<0.003
A - 18	Area Sample - East Fence Line	7/19/90 7/19/90	281	5.97	1,680	<4,900	<0.003

Fibers/cc = fibers/ml

Chen-Northern, Inc.
600 S. 25th Street
P.O. Box 30615
Billings, Montana 59107
(406) 248-9161

AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

Date: August 2, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration(1) fibers/cc
A-19	Field blank	7/23/90	--	--	--	<4,900	--	--
A-20	Area sample - east fence line - center	7/23/90 7/24/90	442	5.05	2,230	<4,900	<0.002	--
A-21	Outside work area exterior northeast side of office by tank	7/23/90 7/24/90	307	5.28	1,620	<4,900	<0.003	--
A-22	Outside work area exterior northwest side of office by tank	7/23/90 7/24/90	427	3.61	1,540	<4,900	<0.003	--

(1) See the attached summary of methods listing this and alternative methods of analysis.

Fibers/cc = fibers/ml

A < sign indicates less than the reported value was present in the sample.

xc: Mountain States Abatement
R. Foust - CNI

Chen-Northern, Inc.
600 S. 25th Street
P.O. Box 30615
Billings, Montana 59107
(406) 248-9161

AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

Date: August 2, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration[(1)] fibers/cc
A-23	Outside work area exterior - east of east pipe gallery for office building	7/23/90 7/24/90	341	4.61	1,570	<4,900	<0.003	--
A-24	Baseline; Carpenter shop - center	7/23/90 7/24/90	195	8.74	1,700	<4,900	<0.003	--
A-25	Final - exterior east pipe gallery for office	7/23/90 7/24/90	146	9.25	1,350	6,870	0.005	0.01
A-26	Final - exterior east pipe gallery for office	7/23/90 7/24/90	146	9.37	1,370	6,870	0.005	0.01
A-27	Area sample - east fence line - center	7/24/90 7/24/90	320	3.87	1,240	8,340	0.007	--
A-28	Baseline carpull/ winch house	7/24/90 7/24/90	150	9.66	1,450	6,380	0.004	--

(1) See the attached summary of methods listing this and alternative methods of analysis.
Fibers/cc = fibers/ml
A < sign indicates less than the reported value was present in the sample.
xc: Mountain States Abatement
R. Foust - CNI

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(406) 248-9161

AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

Date: August 2, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration(1) fibers/cc
A-29	Area sample - east fence line; east of machine shop	7/24/90 7/24/90	163	9.73	1,590	<4,900	<0.003	--
A-30	Final - Tank area northeast of office building	7/24/90 7/24/90	172	9.79	1,680	4,900	0.003	0.01
A-31	Final - Tank area northeast of office building	7/24/90 7/24/90	172	9.45	1,630	16,200	0.01	0.01
A-32	Field blank	7/24/90 7/24/90	--	--	--	<4,900	--	--
A-33	Final - south pipe gallery for office building	7/25/90 7/25/90	150	9.62	1,440	7,850	0.005	0.01
A-34	Final - south pipe gallery for office building	7/25/90 7/25/90	150	9.79	1,470	<4,900	<0.003	0.01

(1) See the attached summary of methods listing this and alternative methods of analysis.
Fibers/cc = fibers/ml
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AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

Date: August 2, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration(1) fibers/cc
A-35	Area sample - east fence line	7/25/90 7/25/90	406	4.28	1,740	<4,900	<0.003	--
A-36	Area sample - west of carpenter shop	7/25/90 7/25/90	300	4.74	1,420	<4,900	<0.003	--
A-37	Inside work area carpenter shop	7/25/90 7/25/90	212	7.20	1,530	4,900	0.003	--
A-38	Field blank	7/25/90	--	--	--	<4,900	--	--
A-39	Baseline - auxiliary hoist house second floor	7/26/90 7/26/90	280	7.25	2,030	<4,900	<0.002	--
A-40	Area sample - east fence line	7/26/90 7/26/90	270	5.94	1,600	<4,900	<0.003	--

(1) See the attached summary of methods listing this and alternative methods of analysis.
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AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

Date: August 13, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration$^{(1)}$ fibers/cc
A-41	Area sample - east fence line - center	7/30/90 7/30/90	481	3.08	1,480	<4,900	<0.003	--
A-42	Area sample - east fence line - south	7/30/90 7/30/90	479	3.24	1,550	<4,900	<0.003	--
A-43	Outside work area, north side of car pull/winch house	7/30/90 7/30/90	202	7.16	1,450	5,400	0.004	--
A-44	Final - car pull/ winch house	7/31/90 7/31/90	149	9.18	1,370	<4,900	<0.004	0.01
A-45	Final - car pull/ winch house	7/31/90 7/31/90	149	9.49	1,410	<4,900	<0.003	0.01

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AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

Date: August 13, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration(1) fibers/cc
A-46	Final - car pull/ winch house	7/31/90	Pump failure due to the lack of sufficient electrical amperage					
A-47	Outside work area, east side of carpenter shop	7/31/90 7/31/90	257	5.62	1,440	4,900	0.003	--
A-48	Area sample - east fence line - center	7/31/90 8/01/90	566	2.26	1,280	<4,900	<0.004	--
A-49	Area sample - east fence line - south	7/31/90 8/01/90	559	2.50	1,400	<4,900	<0.004	--
A-50	Area sample - south fence line	7/31/90 8/01/90	558	2.59	1,450	<4,900	<0.003	--
A-51	Area sample - west fence line behind carpenter shop	7/31/90 8/01/90	554	2.25	1,250	<4,900	<0.004	--
A-52	Baseline - Auxiliary hoist house east side	7/31/90 7/31/90	150	8.85	1,330	5,890	0.004	--

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ANSELMO MINE
ASBESTOS REMOVAL

Date: August 13, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration fibers/cc
A-53	Baseline - auxiliary hoist house West side	7/31/90 7/31/90	150	9.95	1,420	6,380	0.004	--
A-54	Field blank	7/31/90	--	--	--	<4,900	--	--
A-55	Area sample - east fence line - center	8/01/90 8/02/90	539	2.15	1,160	<4,900	<0.004	--
A-56	Area sample - east fence line - south	8/01/90 8/02/90	540	2.17	1,170	<4,900	<0.004	--
A-57	Area sample - south fence line	8/01/90 8/02/90	542	2.61	1,420	<4,900	<0.003	--
A-58	Area sample - west fence line behind carpenter shop	8/01/90 8/08/90	542	2.64	1,430	<4,900	<0.003	--
A-59	Field blank	8/01/90	--	--	--	<4,900	--	--

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ANSELMO MINE
ASBESTOS REMOVAL

Date: August 13, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration[1] fibers/cc
A-60	Outside work area, east side of carpenter shop	8/01/90 8/01/90	360	5.41	1,950	<4,900	<0.003	--
A-61	Baseline - upper level of dry house west side	8/01/90 8/01/90	163	9.17	1,500	<4,900	<0.003	--
A-62	Baseline - upper level of dry house east side	8/01/90 8/01/90	163	9.37	1,530	<4,900	<0.003	--
A-63	Baseline - lower level of dry house east side	8/01/90 8/01/90	171	9.47	1,620	<4,900	<0.003	--
A-64	Baseline - lower level of dry house west side	8/01/90 8/01/90	171	9.42	1,610	54,900	0.034	--

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AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

Date: August 13, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration[1] fibers/cc
A-65	Area sample - Exterior pipe east side of office (Negative pressure glove bag)	8/01/90 8/01/90	159	9.53	1,520	4,900	0.003	--
A-66	Area sample - east fence line - center	8/02/90 8/02/90	510	2.20	1,120	<4,900	<0.004	--
A-67	Outside work area - carpenter shop	8/02/90 8/02/90	214	8.74	1,870	<4,900	<0.003	--
A-68	Outside work area - air tank (Negative pressure glove bag)	8/02/90 8/02/90	193	9.38	1,810	7,360	0.004	--
A-69	Field blank	8/02/90	--	--	--	<4,900	--	--

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ANSELMO MINE
ASBESTOS REMOVAL

Date: August 15, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration(1) fibers/cc
A-70	Field blank	8/06/90 8/06/90	--	--	--	<4,900	--	--
A-71	Area sample, east fenceline	8/06/90 8/07/90	554	2.03	1,130	6,870	0.006	--
A-72	Area sample, west fenceline	8/06/90 8/07/90	558	2.56	1,430	4,900	0.003	--
A-73	Final - carpenter shop, northwest corner	8/06/90 8/06/90	156	9.14	1,430	6,380	0.005	0.01
A-74	Final - carpenter shop, northeast corner	8/06/90 8/06/90	156	9.83	1,530	9,810	0.006	0.01
A-75	Final - carpenter shop, southwest corner	8/06/90 8/06/90	156	9.53	1,490	7,850	0.005	0.01

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Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration fibers/cc
A-76	Final - carpenter shop, southeast corner	8/06/90 8/06/90	156	9.74	1,520	7,360	0.005	0.01
A-77	Final - carpenter shop - center	8/06/90 8/06/90	156	9.79	1,530	6,870	0.005	0.01
A-78	Area sample - upper level of main hoist house - east side	8/06/90 8/07/90	388	2.08	810	<4,900	<0.006	
A-79	Field blank	8/07/90	--	--	--	<4,900	--	--
A-80	Area sample - east fenceline	8/07/90	566	2.09	1,180	5,390	0.005	--
A-81	Area sample - south fenceline	8/07/90	566	2.60	1,470	5,390	0.004	--
A-82	Area sample - west fenceline	8/07/90	564	2.26	1,280	<4,900	<0.004	--

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ASBESTOS REMOVAL

Date: August 15, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration(1) fibers/cc
A-83	Outside work area, southside of dry house	8/07/90 8/07/90	153	9.62	1,470	<4,900	<0.003	--
A-84	Outside work area, eastside of dry house	8/07/90 8/07/90	284	4.75	1,350	5,400	0.004	--
A-85	Final - dry house crawlspace	8/07/90 8/07/90	153	9.60	1,470	<4,900	<0.003	0.01
A-86	Final - dry house crawlspace	8/07/90 8/07/90	153	9.77	1,500	<4,900	<0.003	0.01
A-87	Final - dry house crawlspace	8/07/90 8/07/90	153	9.51	1,460	<4,900	<0.003	0.01
A-88	Final - dry house crawlspace	8/07/90 8/07/90	153	9.45	1,450	<4,900	<0.003	0.01
A-89	Final - dry house crawlspace	8/07/90 8/07/90	153	9.18	1,410	<4,900	<0.003	0.01

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ASBESTOS REMOVAL

Date: August 15, 1990
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Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration fibers/cc
A-90	Area sample - east fenceline	8/08/90 8/09/90	532	2.59	1,380	<4,900	<0.004	--
A-91	Area sample - south fenceline	8/08/90 8/09/90	532	2.60	1,380	<4,900	<0.004	--
A-92	Area sample - northwest corner of head frame	8/08/90 8/09/90	531	2.01	1,070	<4,900	<0.005	--
A-93	Area sample - west fenceline by tank	8/08/90 8/09/90	531	2.16	1,150	<4,900	<0.004	--
A-94	Outside work area, lower level of auxiliary hoist house, eastside	8/08/90 8/08/90	286	5.47	1,560	4,900	0.003	--
A-95	Field blank	8/09/90	--	--	--	<4,900	--	--

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ASBESTOS REMOVAL

Date: August 15, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration fibers/cc
A-96	Final - lower level auxiliary hoist house, northwest corner	8/09/90 8/09/90	150	9.51	1,430	<4,900	<0.003	0.01
A-97	Final - lower level auxiliary hoist house - northeast corner	8/09/90 8/09/90	150	9.58	1,440	<4,900	<0.003	0.01
A-98	Final - lower level auxiliary hoist house - southwest corner	8/09/90 8/09/90	150	9.41	1,410	4,900	0.003	0.01
A-99	Final - lower level auxiliary hoist house - southeast corner	8/09/90 8/09/90	150	9.79	1,470	4,900	0.003	0.01
A-100	Final - lower level auxiliary hoist house, northside	8/09/90 8/09/90	150	9.12	1,370	<4,900	<0.004	0.01

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AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

Date: August 20, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration(1) fibers/cc
A-101	Area sample - east fence line	8/09/90 8/09/90	520	2.17	1,130	<4,900	<0.004	--
A-102	Area sample - between Ore Bin and Car Pull/ Winch House	8/09/90 8/09/90	520	2.24	1,170	<4,900	<0.004	--
A-103	Area sample - east fence line	8/13/90 8/14/90	557	2.02	1,130	<4,900	<0.004	--
A-104	Area sample - south fence line	8/13/90 8/14/90	553	2.59	1,430	<4,900	<0.003	--
A-105	Outside work area eastside of Ore Bin	8/13/90 8/14/90	552	2.53	1,400	<4,900	<0.004	--

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AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

Date: August 20, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration(1) fibers/cc
A-106	Area sample - west fence line behind tank	8/13/90 8/14/90	551	2.18	1,200	<4,900	<0.004	--
A-107	Outside work area east side of tank by dry house	8/13/90 8/14/90	551	2.16	1,190	<4,900	<0.004	--
A-108	Field blank	8/13/90	--	--	--	<4,900	--	--
A-109	Outside work area second level - dry house - east side	8/13/90 8/13/90	252	5.05	1,270	<4,900	<0.004	--
A-110	Outside work area second level - dry house - east side	8/14/90 8/15/90	530	2.41	1,280	<4,900	<0.004	--
A-111	Area sample - west fence line behind tank	8/14/90 8/15/90	528	2,60	1,370	<4,900	<0.004	--
A-112	Area sample - east of dry tank	8/14/90 8/15/90	528	2.54	1,340	<4,900	<0.004	--

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ANSELMO MINE
ASBESTOS REMOVAL

Date: August 20, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration(1) fibers/cc
A-113	Field blank	8/14/90	--	--	--	<4,900	--	--
A-114	Outside work area sample - second floor of dry house - east side	8/15/90	554	2.35	1,280	<4,900	<0.004	--
A-115	Area sample - west fence line behind storage tank	8/15/90	552	2.62	1,450	<4,900	<0.003	--
A-116	Area sample - east side of dry house storage tank	8/15/90	551	2.19	1,210	<4,900	<0.004	--
A-117	Inside work area - storage tank west of dry house	8/15/90	. Equipment Failure					

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ANSELMO MINE
ASBESTOS REMOVAL

Date: August 20, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration(1) fibers/cc
A-118	Field Blank	8/15/90	--	--	--	<4,900	--	--
A-119	Final - dry house storage tank	8/16/90 8/16/90	150	9.35	1,400	<4,900	<0.004	0.01
A-120	Final - dry house storage tank	8/16/90 8/16/90	150	9.53	1,430	<4,900	<0.003	0.01
A-121	Final - dry house storage tank	8/16/90 8/16/90	150	9.76	1,460	<4,900	<0.003	0.01
A-122	Final - dry house storage tank	8/16/90 8/16/90	150	9.55	1,430	<4,900	<0.003	0.01
A-123	Final - dry house storage tank	8/16/90 8/16/90	150	9.70	1,460	<4,900	<0.003	0.01

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AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

Date: August 20, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration fibers/cc
A-124	Outside work area second floor of dry house, east side	8/16/90 8/16/90	548	2.56	1,400	<4,900	<0.004	--
A-125	Area sample - west fence line	8/16/90 8/16/90	538	2,49	1,340	<4,900	<0.004	--
A-126	Outside work area main hoist house boiler room	8/16/90 8/16/90	240	6.39	1,530	<4,900	<0.003	--

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xc: Mountain States Abatement

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AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

Date: September 5, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration$^{(1)}$ fibers/cc
A-127	Area sample north fenceline during tank removal	8/20/90 8/21/90	448	2.21	990	<4,900	<0.005	--
A-128	PCM clearance, second floor dry house north east area	8/20/90 8/20/90	146	9.49	1,386	<4,900	<0.004	0.010
A-129	PCM clearance, second floor dry house by east door	8/20/90 8/20/90	145	9.45	1,370	<4,900	<0.004	0.010
A-130	PCM clearance, second floor dry house north west area	8/20/90 8/20/90	148	9.79	1,449	<4,900	<0.003	0.010
A-131	Field blank	8/20/90 8/20/90	--	--	--	<4,900	--	--

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AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

Date: September 5, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration[(1)] fibers/cc
A-132	PCM clearance, second floor dry house south west corner by door	8/20/90 8/20/90	150	9.62	1,443	<4,900	<0.003	0.010
A-133	PCM clearance, second floor dry house, south end, near middle	8/20/90 8/20/90	149	9.59	a,429	<4,900	<0.003	0.010
A-134	Area sample by dumpster during soil removal, southeast corner of dry house	8/22/90 8/23/90	154	9.69	1,492	<4,900	<0.003	--
A-135	Area sample by first floor dry house during cleaning, southwest corner door	8/22/90 8/23/90	156	9.79	1,527	<4,900	<0.003	--

A < sign indicates less than the reported value was present in the sample.
Fibers/cc = fibers/ml
xc: Mountain States Abatement

Chen-Northern, Inc.
600 S. 25th Street
P.O. Box 30615
Billings, Montana 59107
(406) 248-4018

AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

Date: September 5, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration(1) fibers/cc
A-136	PCM clearance, first floor dry house, southwest corner	8/23/90 8/24/90	135	9.60	1,296	<4,900	<0.004	0.010
A-137	PCM clearance, first floor dry house, middle of south end	8/23/90 8/24/90	134	9.74	1,305	<4,900	<0.004	0.010
A-138	PCM clearance, first floor dry house by east door	8/23/90 8/24/90	132	9.49	1,253	<4,900	<0.004	0.010
A-139	PCM clearance, first floor dry house north east row	8/23/90 8/24/90	132	9.77	1,290	<4,900	<0.004	0.010
A-140	PCM clearance first floor dry house northwest corner	8/23/90 8/24/90	135	9.53	1,287	<4,900	<0.004	0.010

A < sign indicates less than the reported value was present in the sample.
Fibers/cc = fibers/ml
xc: Mountain States Abatement

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AIR QUALITY ANALYSIS
ANSELMO MINE
ASBESTOS REMOVAL

September 8, 1990
Job No. 90-3133E

Lab No.	Sample Description	Date Sampled Date Analyzed	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per Filter	Calculated Fiber Concentration fibers/cc	Allowable Concentration fibers/cc
A-141	Field Blank	8/28/90	0	0	0	<4,900	0	0
A-142	Final - Main Hoist House Boiler Room	8/28/90 8/28/90	150	9.64	1,450	<4,900	<0.003	0.01
A-143	Final - Main Hoist House Boiler Room	8/28/90 8/28/90	150	9.83	1,480	<4,900	<0.003	0.01
A-144	Final - Main Hoist House Boiler Room	8/28/90 8/28/90	150	9.33	1,400	<4,900	<0.004	0.01
A-145	Final - Main Hoist House Boiler Room	8/28/90 8/28/90	150	9.46	1,420	<4,900	<0.003	0.01
A-146	Final - Main Hoist House Boiler Room	8/28/90 8/28/90	150	9.65	1,450	<4,900	<0.003	0.01

Fibers/cc = fibers/ml

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AIR QUALITY ANALYSIS
MOUNTAIN STATES ABATEMENT
ANSELMO MINE

July 26, 1990
Job No. 90-579

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per filter	Calculated Fiber Concentration fibers/cc
MSA-1	Personnel - Jennifer Moline - glove bag first floor, Main Hoist House	7/19/90	261	1.79	467	<4,900	<0.010
MSA-2	Personnel - Darrel Kroll - glove bag in first floor, Main Hoist House and in bathroom of Office Building	7/19/90	60	1.82	109	<4,900	<0.045

Fibers/cc = fibers/ml

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AIR QUALITY ANALYSIS
MOUNTAIN STATES ABATEMENT, INC.
PERSONNEL MONITORING
ANSELMO MINE

Date: July 31, 1990
Job No. 90-579

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per filter	Calculated Fiber Concentration(1) fibers/cc
MS-03	Personnel sample, Darrell Kroll (AL-4)	7/23/90 7/23/90	98	1.82	178	6,870	0.039
MS-04	Personnel sample, Jennifer Moline (AL-7)	7/24/90 7/24/90	197	1.76	347	18,600	0.054
MS-05	Personnel sample, Steve Shultz (AL-8)	7/25/90 7/25/90	153	2.03	311	<4,900	<0.016
MS-06	Personnel sample, Darrell Kroll (AL-9)	7/25/90 7/25/90	115	2.00	230	6,380	0.028

(1) See attached summary of methods listing this and alternate methods of analysis.

Fibers/cc = fibers/ml

A < sign indicates less than the reported value was present in the sample.

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AIR QUALITY ANALYSIS
MOUNTAIN STATES ABATEMENT
ANSELMO MINE
PERSONAL SAMPLES

Date: August 8, 1990
Job No. 90-570

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per filter	Calculated Fiber Concentration(1) fibers/cc
MS-07	Personal sample, Darrell Kroll (AL12)	7/31/90 8/01/90	160	2.01	322	14,200	0.044
MS-08	Personal sample, Rick Johns (AL16)	8/02/90 8/02/90	170	2.02	343	7,360	0.021
MS-09	Personal sample, Robert Russell (AL15)	8/02/90 8/02/90	257	1.79	460	<4,900	<0.011

Fibers/cc = fibers/ml

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AIR QUALITY ANALYSIS
MOUNTAIN STATES ABATEMENT, INC.
PERSONNEL SAMPELS

August 15, 1990
Job No. 90-579

Lab No.	Sample Description	Date Analyzed	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per filter	Calculated Fiber Concentration fibers/cc
MS-10	Personnel sample - Robert Russell - Carpenter shop (AL17)	8/06/90 8/06/90	225	1.81	407	5,890	0.015
MS-11	Personnel sample - Jennifer Moline - Cleaning under dry house (AL18)	8/07/90 8/07/90	130	2.18	283	9,320	0.033
MS-12	Personnel sample - Robert Russell - Auxiliary hoist house (AL20)	8/08/90 8/08/90	334	1.87	625	5,890	0.009

Fibers/cc = fibers/ml

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AIR QUALITY ANALYSIS
MOUNTAIN STATES ABATEMENT, INC.
PERSONNEL MONITORING
ANSELMO MINE

August 22, 1990
Job No. 90-579

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per filter	Calculated Fiber Concentration fibers/cc
MS-13	Personnel sample Robert Russell (AL 24)	8/15/90	160	1.77	283	<4,900	<0.017
MS-14	Personnel sample Darrell Kroll (AL 25)	8/16/90	170	2.86	486	6,380	0.013
MS-15	Personnel sample Robert Russell (AL 27)	8/16/90	134	2.84	381	<4,900	<0.013

Fibers/cc = fibers/ml

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AIR QUALITY ANALYSIS
MOUNTAIN STATES ABATEMENT, INC.
PERSONNEL MONITORING
ANSELMO MINE

Date: August 28, 1990
Job No. 90-579

Lab No.	Sample Description	Date Sampled	Sample Duration minutes	Pump Flow Rate, liters per minute	Sample Volume liters	Fibers per filter	Calculated Fiber Concentration fibers/cc
MS-16	Personnel - Rick Johns First floor, dry house, precleaning	8/20/90 8/21/90	260	1.67	434	27,500	0.063
MS-17	Personnel - Darrell Kroll First floor, dry house cleaning	8/21/90 8/22/90	320	2.64	845	13,000	0.015
MS-18	Personnel - Robert Russell - First floor, dry house, cleaning	8/22/90 8/23/90	265	1.66	440	15,400	0.035

Fibers/cc = fibers/ml

A < sign indicates less than the reported value was present in the sample.

xc: Mountain States Abatement

BULK SAMPLE ANALYSIS

Project #
90-3133E

hen-Northern, Inc.

Anselmo Mine

Building: Carpenter shop Roof

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	QUANTITY	CONDITION ASSESSMENT CATEGORY	SAMPLES OBTAINED
32	2'x4'- silverblack	2100sf	significant damage	3
33	Black rolled roofing felt	850sqft	significant damage	2

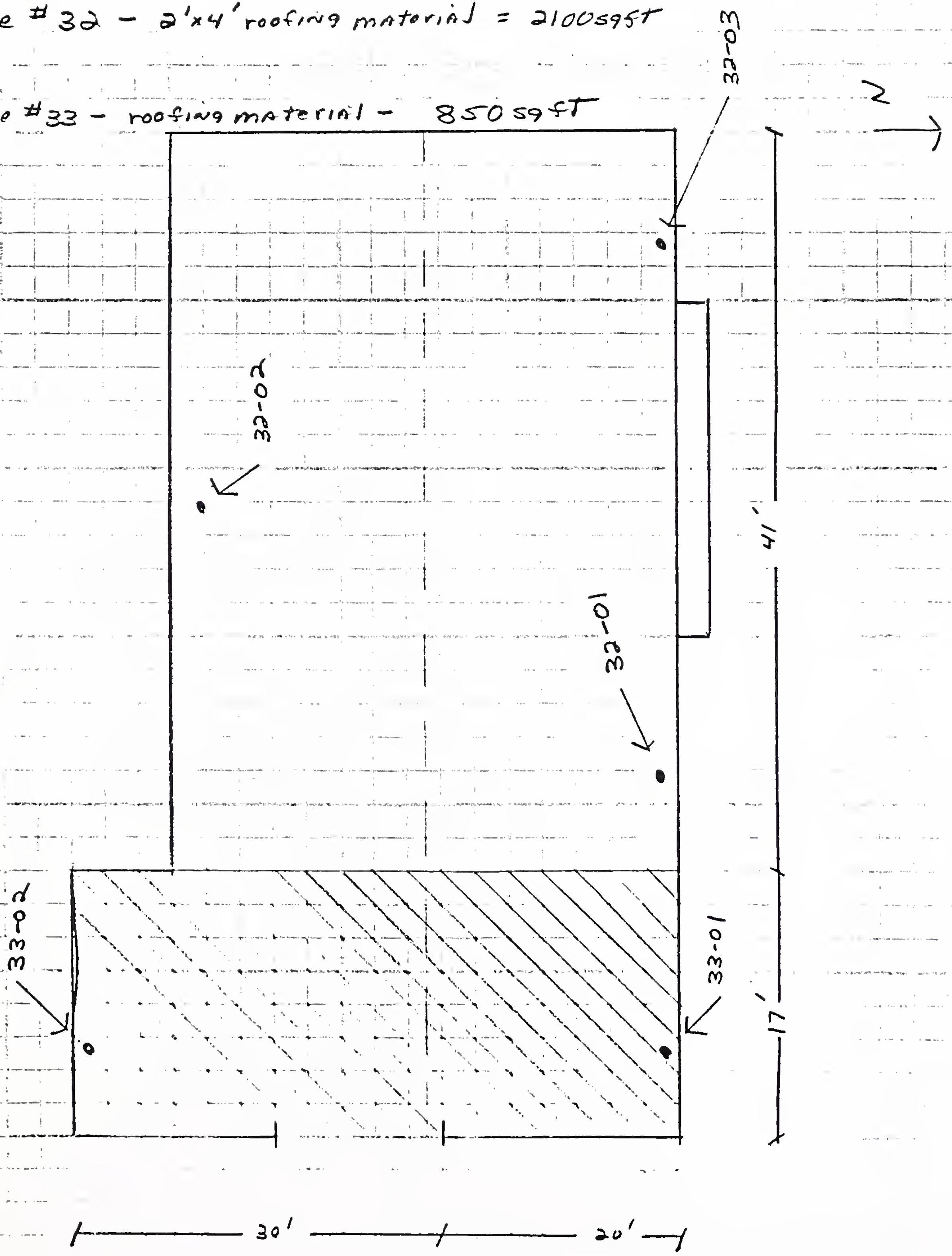
Chen Northern, Inc.
consulting engineers & scientists

JOB. NO. 90-3133E JOB TITLE Anselmo Mine DATE 8/30/90 BY R.F

SUBJECT Carpenter Shop Roof - Bulk Sample CHECKED ______ SHEET 1 OF 1

☐ Sample #32 - 2'x4' roofing material = 2100 sq ft

▨ Sample #33 - roofing material - 850 sq ft



Chen-Northern, Inc.

A member of the HIH group of companies

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TECHNICAL REPORT

AMERICAN COUNCIL OF INDEPENDENT LABORATORIES, INC.

REPORT TO:

CHEN-NORTHERN, INC.
ATTN: MR. DAVE HUMMEL
P O BOX 30615
BILLINGS, MT 59107

DATE: September 14, 1990
JOB NUMBER: 87-910
SHEET: OF
INVOICE NO.: 104053

REPORT OF: Building Material Analysis - Anselmo Mine (90-3133E)

Sample Identification:

On August 31, 1990, our laboratory received five building material samples from Mr. Rick Foust. Our laboratory assigned lab numbers 34253 - 34257 to the samples and analyzed them in general accordance with EPA Interim Method EPA 600/M4-82-020, which employs polarized light microscopic techniques with dispersion staining for identification of mineral forms of asbestos. The quantification of asbestos in the sample is intended to be an estimate only. The results are shown on the following page.

A < sign indicates less than the reported value was present in the sample.

On April 1, 1989, our laboratory was assigned "accredited" status by the National Institute of Standards and Technology's National Voluntary Laboratory Accreditation Program, (NVLAP).

Reviewed by

rmr

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF OUR CLIENTS AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL. SAMPLES WILL BE DISPOSED OF AFTER TESTING IS COMPLETED UNLESS OTHER ARRANGEMENTS ARE AGREED TO IN WRITING

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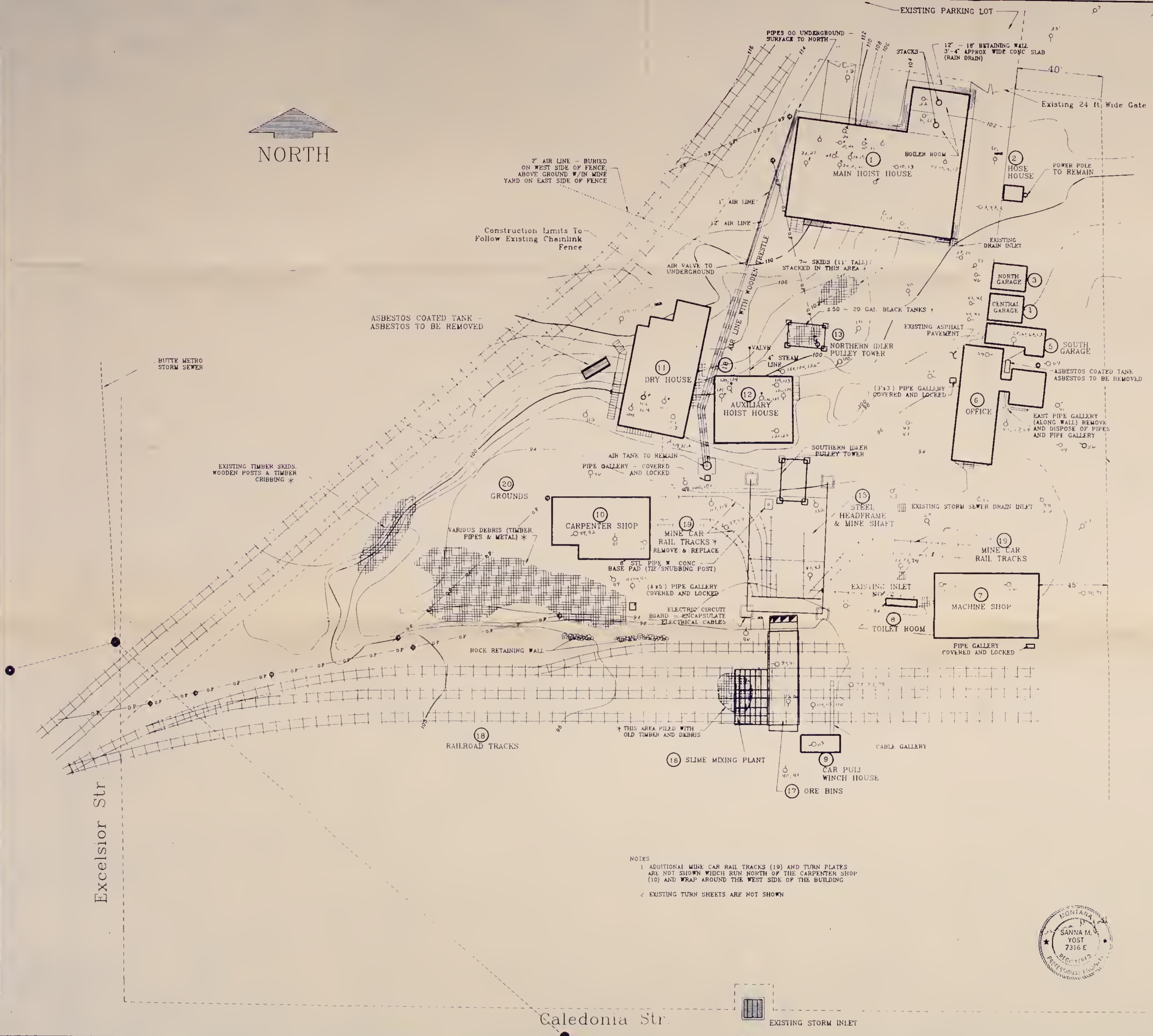
SAMPLE COLLECTION AND
ANALYSIS DATA

ANSELMO MINE (90-3133E)
CHEN-NORTHERN, INC. - BILLINGS, MT

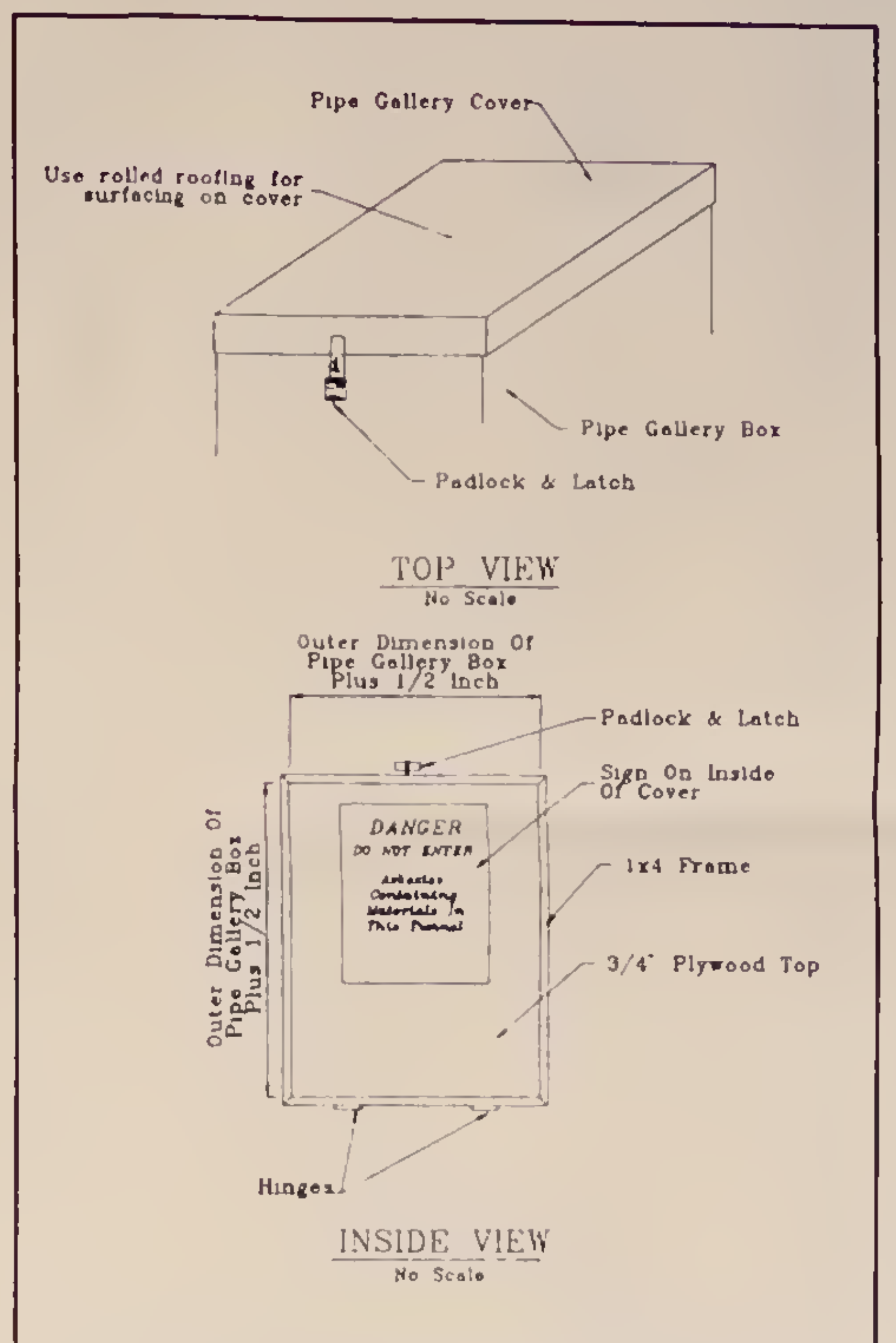
September 14, 1990
Job No. 87-910

Lab No.	Sample Number	Sample Description and Location	Date Collected/ Date Analyzed	Type (S,T,M)	Friability	Asbestos Identification and Estimated Quantity	Non-Asbestos Fibrous Material and Estimated Quantity
34253	32-01	2'x4', silver black east side of carpenter shop	8/30/90 9/11/90	M	Nonfriable	30-40% Chrysotile	10-20% Cellulose
34254	32-02	2'x4', silver black east side of carpenter shop	8/30/90 9/11/90	M	Nonfriable	40-50% Chrysotile	10-20% Cellulose
34255	32-03	2'x4', silver black east side of carpenter shop	8/30/90 9/11/90	M	Nonfriable	60-70% Chrysotile	5-10% Cellulose
34256	33-01	Black rolled roofing felt, west side of carpenter shop	8/30/90 9/11/90	M	Nonfriable	40-50% Chrysotile	5-10% Cellulose
34257	33-02	Black rolled roofing felt, west side of carpenter shop	8/30/90 9/11/90	M	Nonfriable	None detected	40-50% Cellulose

S = Surfacing; T = Thermal; M = Miscellaneous


NORTH
EXISTING PARKING LOT
PIPES OO UNDERGROUND - SURFACE TO NORTH
STACKS
12" - 18" RETAINING WALL 3'-4" APPROX WIDE CONC SLAB (RAIN DRAIN)
40'
Existing 24 ft Wide Gate
BOILER ROOM
1 MAIN HOIST HOUSE
2 HOSE HOUSE
POWER POLE TO REMAIN
2" AIR LINE - BURIED ON WEST SIDE OF FENCE, ABOVE GROUND W/IN MINE YARD ON EAST SIDE OF FENCE
1" AIR LINE
2" AIR LINE
Construction Limits To Follow Existing Chainlink Fence
AIR VALVE TO UNDERGROUND
AIR LINE WITH WOODEN TRESTLE
7~ SKIDS (11' TALL) STACKED IN THIS AREA +
EXISTING DRAIN INLET
3 NORTH GARAGE
4 CENTRAL GARAGE
±50 ~ 20 GAL BLACK TANKS +
EXISTING ASPHALT PAVEMENT
5 SOUTH GARAGE
ASBESTOS COATED TANK - ASBESTOS TO BE REMOVED
11 DRY HOUSE
VALVE
4" STEAM LINE
18
13 NORTHERN IDLER PULLEY TOWER
12 AUXILIARY HOIST HOUSE
(3'x3') PIPE GALLERY COVERED AND LOCKED
ASBESTOS COATED TANK ASBESTOS TO BE REMOVED
6 OFFICE
EAST PIPE GALLERY (ALONG WALL) REMOVE AND DISPOSE OF PIPES AND PIPE GALLERY
BUTTE METRO STORM SEWER
EXISTING TIMBER SKIDS, WOODEN POSTS & TIMBER CRIBBING *
AIR TANK TO REMAIN
PIPE GALLERY - COVERED AND LOCKED
SOUTHERN IDLER PULLEY TOWER
20 GROUNDS
10 CARPENTER SHOP
VARIOUS DEBRIS (TIMBER, PIPES & METAL) *
19 MINE CAR RAIL TRACKS + REMOVE & REPLACE
6" STL PIPE W CONC BASE PAD (TIE SNUBBING POST)
(4'x5') PIPE GALLERY COVERED AND LOCKED
ELECTRIC CIRCUIT BOARD - ENCAPSULATE ELECTRICAL CABLES
15 STEEL HEADFRAME & MINE SHAFT
EXISTING STORM SEWER DRAIN INLET
19 MINE CAR RAIL TRACKS
EXISTING INLET NO. 2
7 MACHINE SHOP
45'
8 TOILET ROOM
PIPE GALLERY COVERED AND LOCKED
Construction Limits
ROCK RETAINING WALL
18 RAILROAD TRACKS
+ THIS AREA PILED WITH OLD TIMBER AND DEBRIS
16 SLIME MIXING PLANT
CABLE GALLERY
9 CAR PULL WINCH HOUSE
17 ORE BINS
Excelsior Str
Caledonia Str
EXISTING STORM INLET

NOTES
1. ADDITIONAL MINE CAR RAIL TRACKS (19) AND TURN PLATES ARE NOT SHOWN WHICH RUN NORTH OF THE CARPENTER SHOP (10) AND WRAP AROUND THE WEST SIDE OF THE BUILDING
2. EXISTING TURN SHEETS ARE NOT SHOWN


Pipe Gallery Cover
Use rolled roofing for surfacing on cover
Pipe Gallery Box
Padlock & Latch
TOP VIEW
No Scale
Outer Dimension Of Pipe Gallery Box Plus 1/2 Inch
Padlock & Latch
Sign On Inside Of Cover
DANGER
DO NOT ENTER
Asbestos Containing Materials In This Tunnel
1x4 Frame
3/4" Plywood Top
Outer Dimension Of Pipe Gallery Box Plus 1/2 Inch
Hinges
INSIDE VIEW
No Scale

PIPE GALLERY COVER DETAILS

LEGEND

▨	MISCELLANEOUS DEBRIS OR SALVAGEABLE ITEMS
◯	EXISTING PAVEMENT (APPROXIMATE LOCATION)
- - ● - -	EXISTING BUTTE METRO STORM SEWER AND MANHOLE (APPROX LOCATION)
┼┼	RAILROAD TRACKS
- - •• - -	OVERHEAD POWER LINES
○	POWER POLE (NOTE Some poles have been cut off at varying heights)
- - -	EXISTING 8' CHAINLINK FENCE
⑦	SPECIFICATION REFERENCE NUMBER NOTE SPECIFIC WORK ITEMS LISTED IN THE PROJECT SPECIFICATIONS
+	ITEM TO BE COMPLETED BY OTHERS (CONTRACT NO. 2)

SCALE

30 ft 0 30' 60' 90 ft.

SANNA M. YOST
7316 E

REVISIONS	
NO	DATE
4	4/13/90
3	3/27/90
2	3/6/90
1	9/7/89

AM121-90

Anselmo Mine Reclamation Project
Contract No. 1 - Asbestos Removal
And Abatement

Drawn BN/JD
Checked SY
Approved RDB
Date 7/15/89

Site Plan
& Pipe Gallery Cover Detail

EXHIBIT
2

Hydrometrics, Inc.
Consulting Scientist & Engineers
Helena, Montana